

# SEQUENCE LISTING

<110> Garman, Jonathan  
Lü, Peter

<120> MODULATION OF SIGNALING PATHWAYS

<130> VITA-019

<140> 10/684,796

<141> 2003-10-14

<150> 60/418,042

<151> 2002-10-11

<150> 60/426,212

<151> 2002-11-14

<150> US02/24655

<151> 2002-08-02

<150> 60/309,841

<151> 2001-08-03

<150> 60/360,061

<151> 2002-02-25

<150> 10/080,273

<151> 2002-02-19

<150> 60/269,523

<151> 2001-02-16

<150> 09/724,553

<151> 2000-11-28

<150> 09/570,118

<151> 2000-05-12

<150> 60/134,114

<151> 1999-05-14

<160> 886

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Glu Gly Lys Ser Ser Gly Ser Gly Ser Glu Ser Lys Val Asp  
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Lys Glu Ser Gly Ser Val Ser Ser Glu Gln Leu Ala Gln Phe Arg Ser  
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Met Ser Pro Ile Leu Gly Tyr Trp Lys Ile Lys Gly Leu Val Gln Pro  
1 5 10 15  
Thr Arg Leu Leu Leu Glu Tyr Leu Glu Lys Tyr Glu Glu His Leu  
20 25 30  
Tyr Glu Arg Asp Glu Gly Asp Lys Trp Arg Asn Lys Lys Phe Glu Leu  
35 40 45  
Gly Leu Glu Phe Pro Asn Leu Pro Tyr Tyr Ile Asp Gly Asp Val Lys  
50 55 60  
Leu Thr Gln Ser Met Ala Ile Ile Arg Tyr Ile Ala Asp Lys His Asn  
65 70 75 80  
Met Leu Gly Gly Cys Pro Lys Glu Arg Ala Glu Ile Ser Met Leu Glu  
85 90 95  
Gly Ala Val Leu Asp Ile Arg Tyr Gly Val Ser Arg Ile Ala Tyr Ser  
100 105 110  
Lys Asp Phe Glu Thr Leu Lys Val Asp Phe Leu Ser Lys Leu Pro Glu  
115 120 125

Met	Leu	Lys	Met	Phe	Glu	Asp	Arg	Leu	Cys	His	Lys	Thr	Tyr	Leu	Asn
	130					135					140				
Gly	Asp	His	Val	Thr	His	Pro	Asp	Phe	Met	Leu	Tyr	Asp	Ala	Leu	Asp
145					150				155					160	
Val	Val	Leu	Tyr	Met	Asp	Pro	Met	Cys	Leu	Asp	Ala	Phe	Pro	Lys	Leu
				165				170						175	
Val	Cys	Phe	Lys	Lys	Arg	Ile	Glu	Ala	Ile	Pro	Gln	Ile	Asp	Lys	Tyr
			180				185						190		
Leu	Lys	Ser	Ser	Lys	Tyr	Ile	Ala	Trp	Pro	Leu	Gln	Gly	Trp	Gln	Ala
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Thr	Phe	Gly	Gly	Gly	Asp	His	Pro	Pro	Lys	Ser	Asp	Leu	Ile	Glu	Gly
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 1 5 10 15  
 Gly Asn Gln His Ile Pro Gly Asp Asn Ser Ile Tyr Val Thr Lys Ile  
 20 25 30  
 Ile Glu Gly Gly Ala Ala His Lys Asp Gly Lys Leu Gln Ile Gly Asp  
 35 40 45  
 Lys Leu Leu Ala Val Asn Asn Val Cys Leu Glu Glu Val Thr His Glu  
 50 55 60  
 Glu Ala Val Thr Ala Leu Lys Asn Thr Ser Asp Phe Val Tyr Leu Lys  
 65 70 75 80

Val Ala

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Pro Ser Glu Leu Lys Gly Lys Phe Ile His Thr Lys Leu Arg Lys Ser  
1 5 10 15  
Ser Arg Gly Phe Gly Phe Thr Val Val Gly Gly Asp Glu Pro Asp Glu  
20 25 30  
Phe Leu Gln Ile Lys Ser Leu Val Leu Asp Gly Pro Ala Ala Leu Asp  
35 40 45  
Gly Lys Met Glu Thr Gly Asp Val Ile Val Ser Val Asn Asp Thr Cys  
50 55 60  
Val Leu Gly His Thr His Ala Gln Val Val Lys Ile Phe Gln Ser Ile  
65 70 75 80  
Pro Ile Gly Ala Ser Val Asp Leu Glu Leu Cys Arg Gly Tyr Pro Leu  
85 90 95  
Pro Phe Asp Pro Asp  
100

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Gln Arg Val Glu Ile His Lys Leu Arg Gln Gly Glu Asn Leu Ile Leu  
1 5 10 15  
Gly Phe Ser Ile Gly Gly Gly Ile Asp Gln Asp Pro Ser Gln Asn Pro  
20 25 30  
Phe Ser Glu Asp Lys Thr Asp Lys Gly Ile Tyr Val Thr Arg Val Ser  
35 40 45  
Glu Gly Gly Pro Ala Glu Ile Ala Gly Leu Gln Ile Gly Asp Lys Ile  
50 55 60  
Met Gln Val Asn Gly Trp Asp Met Thr Met Val Thr His Asp Gln Ala  
65 70 75 80  
Arg Lys Arg Leu Thr Lys Arg Ser Glu Glu Val Val Arg Leu Leu Val  
85 90 95  
Thr Arg Gln Ser Leu Gln  
100

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<400> 23

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1				5					10					15	
Glu	Ile	His	Lys	Leu	Arg	Gln	Gly	Glu	Asn	Leu	Ile	Leu	Gly	Phe	Ser
			20					25					30		
Ile	Gly	Gly	Gly	Ile	Asp	Gln	Asp	Pro	Ser	Gln	Asn	Pro	Phe	Ser	Glu
			35				40					45			
Asp	Lys	Thr	Asp	Lys	Gly	Ile	Tyr	Val	Thr	Arg	Val	Ser	Glu	Gly	Gly
			50			55					60				
Pro	Ala	Glu	Ile	Ala	Gly	Leu	Gln	Ile	Gly	Asp	Lys	Ile	Met	Gln	Val
65					70					75				80	
Asn	Gly	Trp	Asp	Met	Thr	Met	Val	Thr	His	Asp	Gln	Ala	Arg	Lys	Arg
				85					90					95	
Leu	Thr	Lys	Arg	Ser	Glu	Glu	Val	Val	Arg	Leu	Leu	Val	Thr	Arg	Gln
			100					105					110		
Ser	Leu	Gln	Lys	Ala	Val	Gln	Gln	Ser	Met						
			115				120								

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Glu	Met	Ser	Tyr	Ile	Pro	Gly	Gln	Pro	Val	Thr	Ala	Val	Val	Gln	Arg
1				5					10					15	
Val	Glu	Ile	His	Lys	Leu	Arg	Gln	Gly	Glu	Asn	Leu	Ile	Leu	Gly	Phe
			20					25					30		
Ser	Ile	Gly	Gly	Gly	Ile	Asp	Gln	Asp	Pro	Ser	Gln	Asn	Pro	Phe	Ser
			35				40					45			
Glu	Asp	Lys	Thr	Asp	Lys	Gly	Ile	Tyr	Val	Thr	Arg	Val	Ser	Glu	Gly
			50			55					60				
Gly	Pro	Ala	Glu	Ile	Ala	Gly	Leu	Gln	Ile	Gly	Asp	Lys	Ile	Met	Gln
65					70					75				80	
Val	Asn	Gly	Trp	Asp	Met	Thr	Met	Val	Thr	His	Asp	Gln	Ala	Arg	Lys
				85					90					95	
Arg	Leu	Thr	Lys	Arg	Ser	Glu	Glu	Val	Val	Arg	Leu	Leu	Val	Thr	Arg
			100					105					110		
Gln	Ser	Leu	Gln	Lys	Ala	Val	Gln	Gln	Ser	Met	Leu	Ser			
			115				120					125			

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Pro	Gly	Gln	Pro	Val	Thr	Ala	Val	Val	Gln	Arg	Val	Glu	Ile	His	Lys
1				5					10					15	
Leu	Arg	Gln	Gly	Glu	Asn	Leu	Ile	Leu	Gly	Phe	Ser	Ile	Gly	Gly	Gly
			20					25					30		
Ile	Asp	Gln	Asp	Pro	Ser	Gln	Asn	Pro	Phe	Ser	Glu	Asp	Lys	Thr	Asp
			35				40					45			
Lys	Gly	Ile	Tyr	Val	Thr	Arg	Val	Ser	Glu	Gly	Gly	Pro	Ala	Glu	Ile
			50			55					60				
Ala	Gly	Leu	Gln	Ile	Gly	Asp	Lys	Ile	Met	Gln	Val	Asn	Gly	Trp	Asp

65					70					75					80
Met	Thr	Met	Val	Thr	His	Asp	Gln	Ala	Arg	Lys	Arg	Leu	Thr	Lys	Arg
				85					90					95	
Ser	Glu	Glu	Val	Val	Arg	Leu	Leu	Val	Thr	Arg	Gln	Ser	Leu	Gln	Lys
			100					105					110		
Ala	Val	Gln	Gln	Ser											
			115												

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His	Asp	Phe	Arg	Arg	Ala	Phe	Lys	Lys	Ile	Leu	Ala	Arg	Gly	Asp	Arg
1				5					10					15	
Lys	Arg	Ile	Val												
			20												

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Gln	Asp	Phe	Arg	Arg	Ala	Phe	Arg	Arg	Ile	Leu	Ala	Arg	Pro	Trp	Thr
1				5					10					15	
Gln	Thr	Ala	Trp												
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Asp	Phe	Arg	Pro	Ser	Phe	Lys	His	Ile	Leu	Phe	Arg	Arg	Ala	Arg	Arg
1				5					10					15	
Gly	Phe	Arg	Gln												
			20												

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<400> 29

Leu	Ala	Val	Leu	Ala	Tyr	Ser	Ile	Thr	Leu	Val	Met	Leu	Trp	Ser	Ile
1				5					10					15	
Trp	Gln	Tyr	Ala												
			20												

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Asp	Thr	Leu	Leu	Leu	Thr	Glu	Asn	Glu	Gly	Asp	Lys	Thr	Glu	Glu	Gln
1				5					10					15	
Val	Ser	Tyr	Val												
			20												

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His	Asp	Phe	Arg	Arg	Ala	Phe	Lys	Lys	Ile	Leu	Ala	Arg	Gly	Asp	Arg
1				5					10					15	
Lys	Arg	Ile	Val												
			20												

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Gln	Asp	Phe	Arg	Arg	Ala	Phe	Arg	Arg	Ile	Leu	Ala	Arg	Pro	Trp	Thr
1				5					10					15	
Gln	Thr	Ala	Trp												
			20												

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Asp	Phe	Arg	Pro	Ser	Phe	Lys	His	Ile	Leu	Phe	Arg	Arg	Ala	Arg	Arg
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Gly	Phe	Arg	Gln												

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 Gln Gln Tyr Gln Gln Arg Gln Ser Val Ile Phe His Lys Arg Ala Pro  
 1 5 10 15  
 Glu Gln Ala Leu  
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<400> 35  
 Arg Ser Gly Ala Thr Ile Pro Leu Val Gly Gln Asp Ile Ile Asp Leu  
 1 5 10 15  
 Gln Thr Glu Val  
 20

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<400> 36  
 Pro Ser Trp Arg Arg Ser Ser Leu Ser Glu Ser Glu Asn Ala Thr Ser  
 1 5 10 15  
 Leu Thr Thr Phe  
 20

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<400> 37  
 Glu Ser Lys Ser Phe Thr Arg Ser Thr Val Asp Thr Met Ala Gln Lys  
 1 5 10 15  
 Thr Gln Ala Val  
 20

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 Lys Asp Ser Arg Pro Ser Phe Val Gly Ser Ser Ser Gly His Thr Ser  
 1 5 10 15  
 Thr Thr Leu

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<400> 39  
 Glu Arg Ala Ser Ser Val Tyr Thr Arg Ser Thr Gly Glu Gln Glu Ile  
 1 5 10 15  
 Ser Val Gly Leu  
 20

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 Ser Ser Ser Arg Arg Asp Ser Ser Trp Ser Glu Thr Ser Glu Ala Ser  
 1 5 10 15  
 Tyr Ser Gly Leu  
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<400> 41  
 Val Asp Pro Asn Ser Pro Ala Ala Lys Lys Lys Tyr Val Ser Tyr Asn  
 1 5 10 15  
 Asn Leu Val Ile  
 20

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<400> 42

Ala	Arg	His	Arg	Val	Thr	Ser	Tyr	Thr	Ser	Ser	Ser	Val	Asn	Val	Ser
1				5					10					15	
Ser	Asn	Leu													

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<400> 43

Ser	Glu	Asp	Met	Thr	Leu	Asn	Ile	Leu	Pro	Glu	Phe	Lys	Gln	Asn	Gly
1				5					10					15	
Asp	Thr	Ser	Leu												
				20											

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Arg	Pro	Met	Glu	Ser	Asn	Pro	Asp	Thr	Glu	Gly	Ala	Gln	Gly	Glu	Thr
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Glu	Asp	Val	Leu												
				20											

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Glu	Asn	Leu	Glu	Leu	Pro	Val	Asn	Pro	Ser	Ser	Val	Val	Ser	Glu	Arg
1				5					10					15	
Ile	Ser	Ser	Val												
				20											

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Glu	Ala	Leu	Gln	Pro	Glu	Pro	Gly	Arg	Lys	Arg	Ile	Pro	Leu	Thr	Arg
1				5					10					15	
Thr	Thr	Thr	Phe												
				20											

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Leu	Asn	Glu	Thr	Thr	Glu	Thr	Gln	Arg	Thr	Leu	Leu	Asn	Gly	Asp	Leu
1				5					10					15	
Gln	Thr	Ser	Ile												
				20											

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Leu	Gln	Phe	His	Arg	Gly	Ser	Arg	Ala	Gln	Ser	Phe	Leu	Gln	Thr	Glu
1				5					10					15	
Thr	Ser	Val	Ile												
				20											

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<400> 49

Phe	Arg	Cys	Gln	Pro	Ala	Pro	Pro	Ile	Asp	Glu	Asp	Leu	Pro	Glu	Glu
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Arg	Pro	Asp	Asp												
				20											

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Arg Pro Asp Asp

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<400> 51

Val Cys Pro Glu Pro Pro Gly Leu Asp Asp Pro Leu Ala Gln Asp Gly  
1 5 10 15

Ala Gly Val Ser  
20

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<400> 52

Ala Gly Val Ser  
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<210> 53

<211> 20

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<400> 53

Ala Asp Val Lys Ser Gly Asn Gly Gln Ala Gly Val Gln Pro Ala Leu  
1 5 10 15

Gly Val Gly Leu  
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<400> 54

Gly Val Gly Leu  
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<400> 55

Ala	Cys	Val	Val	Cys	His	Pro	Ser	Asp	Ser	Leu	Asp	Thr	Ser	Ile	Glu
1				5					10					15	
Lys	Asn	Ser	Glu												
			20												

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<400> 56

Lys	Asn	Ser	Glu
1			

<210> 57

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<223> Synthetic polymer

<400> 57

Gln	Asp	Phe	Arg	Arg	Ala	Phe	Arg	Arg	Ile	Leu	Cys	Arg	Pro	Trp	Thr
1				5					10					15	
Gln	Thr	Ala	Trp												
			20												

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<400> 58

Gln	Thr	Ala	Trp
1			

<210> 59

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<400> 59

His	Gln	Val	Pro	Thr	Ile	Lys	Val	His	Thr	Ile	Ser	Leu	Ser	Glu	Asn
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----



<212> PRT  
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<400> 64  
Pro Gly Gln Phe  
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<400> 65  
Phe Leu Val Glu Thr Gly Phe His His Val Gly Gln Asp Asp Leu Asp  
1 5 10 15  
Leu Leu Thr Ser  
20

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<400> 66  
Leu Leu Thr Ser  
1

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<400> 67  
Ile Thr Val Ser Lys Asp Gln Ser Ser Cys Thr Thr Ala Arg Gly His  
1 5 10 15  
Thr Pro Met Thr  
20

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<400> 68

Thr Pro Met Thr

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<400> 69

Gly Ala Thr Cys Gln Ala Tyr Glu Leu Ala Asp Tyr Ser Asn Leu Arg  
1 5 10 15

Glu Thr Asp Ile  
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Glu Thr Asp Ile  
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<400> 71

His Asp Phe Arg Arg Ala Phe Lys Lys Ile Leu Cys Arg Gly Asp Arg  
1 5 10 15

Lys Arg Ile Val  
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<400> 72

Lys Arg Ile Val  
1

<210> 73

<211> 20

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<400> 73

Asp Phe Arg Arg Ser Phe Lys His Ile Leu Phe Arg Arg Arg Arg Arg  
1 5 10 15  
Gly Phe Arg Gln  
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<400> 74

Gly Phe Arg Gln  
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<210> 75

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<400> 75

Asp Ser Asp Ser Ser Leu Asp Glu Pro Cys Arg Pro Gly Phe Ala Ser  
1 5 10 15  
Glu Ser Lys Val  
20

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<400> 76

Glu Ser Lys Val  
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<211> 20

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<400> 77

Val Pro Ser Asp Asn Ile Asp Ser Gln Gly Arg Asn Cys Ser Thr Asn

1 5 10 15  
Asp Ser Leu Leu  
20

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Asp Ser Leu Leu  
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Ser Ser Pro Ala Gln Pro Arg Leu Cys Gln Arg Leu Asp Gly Ala Ser  
1 5 10 15  
Trp Gly Val Ser  
20

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<400> 80  
Trp Gly Val Ser  
1

<210> 81  
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<400> 81  
Phe Arg Ser Pro Glu Leu Arg Asp Ala Phe Lys Lys Met Ile Phe Cys  
1 5 10 15  
Ser Arg Tyr Trp  
20

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<400> 82  
Ser Arg Tyr Trp  
1

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<400> 83  
Ala His His Leu Leu Pro Asn Thr Ser Pro Ile Ser Pro Thr Gln Pro  
1 5 10 15  
Leu Thr Pro Ser  
20

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<400> 84  
Leu Thr Pro Ser  
1

<210> 85  
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Arg Pro Ser Asp Asn Val Ser Ser Ser Thr Lys Lys Pro Ala Pro Cys  
1 5 10 15  
Phe Glu Val Glu  
20

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<400> 86

Phe Glu Val Glu

1

<210> 87

<211> 20

<212> PRT

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<400> 87

Arg Pro Ser Asp Asn Val Ser Ser Ser Thr Lys Lys Pro Ala Pro Cys  
1 5 10 15

Phe Glu Val Glu  
20

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<400> 88

Phe Glu Val Glu  
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<210> 89

<211> 20

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<400> 89

Arg Glu Ser Met Ser Cys Arg Lys Ser Ser Ser Leu Arg Glu Met Glu  
1 5 10 15

Thr Phe Val Ser  
20

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<400> 90

Thr Phe Val Ser  
1

<210> 91

<211> 20

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<223> Synthetic polymer

<400> 91

Gly	Gly	Glu	Gln	Met	His	Glu	Lys	Ser	Ile	Pro	Tyr	Ser	Gln	Glu	Thr
1				5					10					15	
Leu	Val	Val	Asp												
			20												

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<211> 4

<212> PRT

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<220>

<223> Synthetic polymer

<400> 92

Leu	Val	Val	Asp
1			

<210> 93

<211> 20

<212> PRT

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<220>

<223> Synthetic polymer

<400> 93

Thr	Cys	Ser	Ser	Gln	Lys	Thr	Glu	Val	Ser	Thr	Val	Ser	Ser	Thr	Gln
1				5					10					15	
Val	Gly	Pro	Asn												
			20												

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<400> 94

Val	Gly	Pro	Asn
1			

<210> 95

<211> 20

<212> PRT

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<220>

<223> Synthetic polymer

<400> 95

Ser	Glu	Ile	Ser	Val	Thr	Ser	Phe	Thr	Gly	Cys	Ser	Val	Lys	Gln	Ala
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----



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<400> 100  
Gly Ser Arg Gln  
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<220>  
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<400> 101  
Arg Ser Gly Ala Thr Ile Pro Leu Val Gly Gln Asp Ile Ile Asp Leu  
1 5 10 15  
Gln Thr Glu Val  
20

<210> 102  
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<220>  
<223> Synthetic polymer

<400> 102  
Gln Thr Glu Val  
1

<210> 103  
<211> 20  
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<400> 103  
His Arg Ala Ala Ala Trp Glu Pro Thr Glu Pro Pro Asp Gly Asp Phe  
1 5 10 15  
Gln Thr Glu Val  
20

<210> 104  
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<400> 104

Gln Thr Glu Val

1

<210> 105

<211> 20

<212> PRT

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<223> Synthetic polymer

<400> 105

Trp Glu Lys Cys Leu Asn Leu Pro Leu Asp Val Gln Glu Gly Asp Phe  
1 5 10 15

Gln Thr Glu Val  
20

<210> 106

<211> 4

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<400> 106

Gln Thr Glu Val  
1

<210> 107

<211> 20

<212> PRT

<213> Artificial Sequence

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<223> Synthetic polymer

<400> 107

Thr Arg Ser Thr His Cys Pro Ser Asn Asn Val Ile Ser Glu Arg Asn  
1 5 10 15

Ser Thr Thr Val  
20

<210> 108

<211> 4

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<400> 108

Ser Thr Thr Val  
1

<210> 109

<211> 20

<212> PRT

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<220>

<223> Synthetic polymer

<400> 109

Glu	Ser	Lys	Ser	Phe	Thr	Arg	Ser	Thr	Val	Asp	Thr	Met	Ala	Gln	Lys
1				5					10					15	
Thr	Gln	Ala	Val												
				20											

<210> 110

<211> 4

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<400> 110

Thr	Gln	Ala	Val
1			

<210> 111

<211> 20

<212> PRT

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<220>

<223> Synthetic polymer

<400> 111

Asn	Gly	Lys	Ser	Ile	His	Asp	Ile	Glu	Asn	Val	Leu	Leu	Lys	Pro	Glu
1				5				10						15	
Asn	Leu	Tyr	Asn												
				20											

<210> 112

<211> 4

<212> PRT

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<400> 112

Asn	Leu	Tyr	Asn
1			

<210> 113

<211> 20

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<400> 113

Gln	Gly	Glu	Glu	Ser	Ala	Glu	Ile	Ile	Pro	Leu	Asn	Ile	Ile	Glu	Gln
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

1	5	10	15
Glu Ser Ser Ala			
20			

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<400> 114  
 Glu Ser Ser Ala  
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<210> 115  
 <211> 20  
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<220>  
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<400> 115  
 Gly Ser Gln Tyr Ile Glu Asp Ser Ile Ser Gln Gly Ala Val Cys Asn  
 1 5 10 15  
 Lys Ser Thr Ser  
 20

<210> 116  
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<400> 116  
 Lys Ser Thr Ser  
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<210> 117  
 <211> 20  
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<400> 117  
 Thr Val Lys Ile Ala Lys Val Thr Met Ser Val Ser Thr Asp Thr Ser  
 1 5 10 15  
 Ala Glu Ala Leu  
 20

<210> 118  
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<400> 118  
Ala Glu Ala Leu  
1

<210> 119  
<211> 20  
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<400> 119  
Glu Ala Asp Gly Lys Ile Thr Pro Trp Pro Asp Ser Arg Asp Leu Asp  
1 5 10 15  
Leu Ser Asp Cys  
20

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<400> 120  
Leu Ser Asp Cys  
1

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<400> 121  
Leu Gly Glu Arg Gln Ser Glu Asn Tyr Pro Asn Lys Glu Asp Val Gly  
1 5 10 15  
Asn Lys Ser Ala  
20

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<400> 122

Asn Lys Ser Ala

1

<210> 123

<211> 20

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<400> 123

Pro Arg Gly Gln Ser Ala Gln Gly Thr Ser Arg Glu Glu Pro Asp His

1 5 10 15

Ser Thr Glu Val

20

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<400> 124

Ser Thr Glu Val

1

<210> 125

<211> 20

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<400> 125

Glu Gly Ser Leu Lys Leu Ser Ser Met Leu Leu Glu Thr Thr Ser Gly

1 5 10 15

Ala Leu Ser Leu

20

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<400> 126

Ala Leu Ser Leu

1

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<211> 20

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<213> Artificial Sequence

<220>

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<400> 127

Leu Glu Arg Val Ser Ser Thr Ser Pro Ser Thr Gly Glu His Glu Leu  
1 5 10 15  
Ser Ala Gly Phe  
20

<210> 128

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<400> 128

Ser Ala Gly Phe  
1

<210> 129

<211> 20

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<400> 129

Arg Pro Arg Leu Ser Ser Cys Ser Ala Pro Thr Glu Thr His Ser Leu  
1 5 10 15  
Ser Trp Asp Asn  
20

<210> 130

<211> 4

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<400> 130

Ser Trp Asp Asn  
1

<210> 131

<211> 20

<212> PRT

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<220>

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<400> 131

Val Glu Glu Phe Pro Phe Asp Ser Glu Gly Pro Thr Glu Pro Thr Ser

1	5	10	15
Thr Phe Ser Ile			
20			

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<400> 132  
 Thr Phe Ser Ile  
 1

<210> 133  
 <211> 20  
 <212> PRT  
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<220>  
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<400> 133  
 Gly Lys Gly Lys Ser Ile Gly Arg Ala Pro Glu Ala Ser Leu Gln Asp  
 1 5 10 15  
 Lys Glu Gly Ala  
 20

<210> 134  
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<400> 134  
 Lys Glu Gly Ala  
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<210> 135  
 <211> 20  
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<220>  
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<400> 135  
 Leu Glu Arg Thr Ser Ser Val Ser Pro Ser Thr Ala Glu Pro Glu Leu  
 1 5 10 15  
 Ser Ile Val Phe  
 20

<210> 136  
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<400> 136  
Ser Ile Val Phe  
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<400> 137  
Asp Thr Pro Ser Ser Ser Tyr Thr Gln Ser Thr Met Asp His Asp Leu  
1 5 10 15  
His Asp Ala Leu  
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<400> 138  
His Asp Ala Leu  
1

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<400> 139  
Glu Arg Ala Ser Ser Val Tyr Thr Arg Ser Thr Gly Glu Gln Glu Ile  
1 5 10 15  
Ser Val Gly Leu  
20

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<400> 140

Ser Val Gly Leu

1

<210> 141

<211> 20

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<400> 141

Asn Ile Ser Arg Gln Thr Ser Glu Thr Ala Asp Asn Asp Asn Ala Ser  
1 5 10 15

Ser Phe Thr Met  
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<210> 142

<211> 4

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<400> 142

Ser Phe Thr Met  
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<210> 143

<211> 20

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<400> 143

Arg His Ile Arg Arg Ser Ser Met Ser Val Glu Ala Glu Thr Thr Thr  
1 5 10 15

Thr Phe Ser Pro  
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<210> 144

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<400> 144

Thr Phe Ser Pro  
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<210> 145

<211> 20

<212> PRT

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<223> Synthetic polymer

<400> 145

Glu Lys Ser Ser Ser Cys Gln Gln His Ser Ser Arg Ser Ser Ser Val  
1 5 10 15  
Asp Tyr Ile Leu  
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<400> 146

Asp Tyr Ile Leu  
1

<210> 147

<211> 20

<212> PRT

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<220>

<223> Synthetic polymer

<400> 147

Ser Gln Ser Gln Thr Ser Arg Ile Leu Leu Ser Ser Met Pro Ser Ala  
1 5 10 15  
Ser Lys Thr Gly  
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<210> 148

<211> 4

<212> PRT

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<400> 148

Ser Lys Thr Gly  
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<210> 149

<211> 20

<212> PRT

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<400> 149

Thr Lys Met Ser Ser Met Asn Glu Arg Thr Ser Met Asn Glu Arg Glu

1 5  
Thr Gly Met Leu  
20

10 15

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<400> 150  
Thr Gly Met Leu  
1

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<211> 20  
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<400> 151  
Leu Lys Ala Val Ile Pro Asp Ser Thr Glu Gln Ser Asp Val Arg Phe  
1 5 10 15  
Ser Ser Ala Val  
20

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<400> 152  
Ser Ser Ala Val  
1

<210> 153  
<211> 20  
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<400> 153  
Thr Gly Ala Ser Leu Ser Arg Phe Ser Tyr Ser His Met Ser Ala Ser  
1 5 10 15  
Val Pro Pro Gln  
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<210> 154  
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Val Pro Pro Gln  
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<210> 155  
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Ser Ile Pro Thr Ser Pro Thr Arg Val Ser Phe His Ser Ile Lys Gln  
1 5 10 15  
Ser Thr Ala Val  
20

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<400> 156  
Ser Thr Ala Val  
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<400> 157  
Ser Ile Pro Thr Ser Pro Thr Arg Ile Ser Phe His Ser Ile Lys Gln  
1 5 10 15  
Thr Ala Ala Val  
20

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<400> 158

Thr Ala Ala Val

1

<210> 159

<211> 20

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<400> 159

Ser Val Leu Ser Ser Asn Phe Thr Tyr His Thr Ser Asp Gly Asp Ala  
1 5 10 15

Leu Leu Leu Leu  
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<210> 160

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<400> 160

Leu Leu Leu Leu  
1

<210> 161

<211> 20

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<400> 161

Ser Ser Ser Arg Arg Asp Ser Ser Trp Ser Glu Thr Ser Glu Ala Ser  
1 5 10 15

Tyr Ser Gly Leu  
20

<210> 162

<211> 4

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<400> 162

Tyr Ser Gly Leu  
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<210> 163

<211> 20

<212> PRT

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<400> 163

Lys Arg Gly Gly His Ser Ser Val Ser Thr Glu Ser Glu Ser Ser Ser  
1 5 10 15  
Phe His Ser Ser  
20

<210> 164

<211> 4

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<400> 164

Phe His Ser Ser  
1

<210> 165

<211> 20

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<400> 165

Pro Ser Trp Arg Arg Ser Ser Leu Ser Glu Ser Glu Asn Ala Thr Ser  
1 5 10 15  
Leu Thr Thr Phe  
20

<210> 166

<211> 4

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<223> Synthetic polymer

<400> 166

Leu Thr Thr Phe  
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<210> 167

<211> 20

<212> PRT

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<220>

<223> Synthetic polymer

<400> 167

Asp Asn Ser Lys Thr Phe Ser Ala Ser His Asn Val Glu Ala Thr Ser



<212> PRT  
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<220>  
<223> Synthetic polymer

<400> 172  
Ile Leu His Cys  
1

<210> 173  
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<212> PRT  
<213> Artificial Sequence

<220>  
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<400> 173  
Val Ile Tyr Thr Thr Phe Asn Ile Glu Phe Arg Lys Ala Phe Leu Lys  
1 5 10 15  
Ile Leu Ser Cys  
20

<210> 174  
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<220>  
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<400> 174  
Ile Leu Ser Cys  
1

<210> 175  
<211> 20  
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<220>  
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<400> 175  
Tyr Thr Val Phe Asn Ala Glu Phe Arg Asn Val Phe Arg Lys Ala Leu  
1 5 10 15  
Arg Ala Cys Cys  
20

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<400> 176

Arg Ala Cys Cys

1

<210> 177

<211> 20

<212> PRT

<213> Artificial Sequence

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<223> Synthetic polymer

<400> 177

Asp Cys Glu Gly Glu Ile Ser Leu Asp Lys Ile Thr Pro Phe Thr Pro  
1 5 10 15

Asn Gly Phe His  
20

<210> 178

<211> 4

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<400> 178

Asn Gly Phe His  
1

<210> 179

<211> 20

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<223> Synthetic polymer

<400> 179

Glu Met His Thr Leu Ser Ser Ser Ala Lys Ala Asp Thr Ser Lys Pro  
1 5 10 15

Ser Thr Val Asn  
20

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<220>

<223> Synthetic polymer

<400> 180

Ser Thr Val Asn  
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<210> 181

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 181

Gly Pro Asp Ser Lys Pro Ser Glu Gly Asp Val Phe Pro Gly Gln Val  
1 5 10 15  
Lys Arg Lys Tyr  
20

<210> 182

<211> 4

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<223> Synthetic polymer

<400> 182

Lys Arg Lys Tyr  
1

<210> 183

<211> 20

<212> PRT

<213> Artificial Sequence

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<223> Synthetic polymer

<400> 183

Lys Asp Glu Gly Asp Asn Pro Glu Thr Ile Met Ser Ser Gly Asn Val  
1 5 10 15  
Asn Ser Ser Ser  
20

<210> 184

<211> 4

<212> PRT

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<220>

<223> Synthetic polymer

<400> 184

Asn Ser Ser Ser  
1

<210> 185

<211> 20

<212> PRT

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<223> Synthetic polymer

<400> 185

Gly Ala Ser Thr Arg Ile Met Leu Pro Glu Asn Gly His Pro Leu Met

1	5	10	15
Asp Ser Thr Leu			
20			

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<220>  
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<400> 186  
 Asp Ser Thr Leu  
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<210> 187  
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<400> 187  
 Leu Glu Arg Gly Met His Met Pro Thr Ser Pro Thr Phe Leu Glu Gly  
 1 5 10 15  
 Asn Thr Val Val  
 20

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<220>  
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<400> 188  
 Asn Thr Val Val  
 1

<210> 189  
 <211> 20  
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<220>  
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<400> 189  
 Phe Lys Ala Asn Asp His Gly Tyr Asp Asn Phe Arg Ser Ser Asn Lys  
 1 5 10 15  
 Tyr Ser Ser Ser  
 20

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Tyr Ser Ser Ser  
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Ser Ile Tyr Phe His Lys Pro Arg Glu Ser Pro Pro Leu Leu Pro Leu  
1 5 10 15  
Gly Thr Pro Cys  
20

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Gly Thr Pro Cys  
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<400> 193  
Lys Asn His Asp Gln Asn Asn His Asn Thr Asp Arg Ser Ser His Lys  
1 5 10 15  
Asp Ser Met Asn  
20

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<400> 194

Asp Ser Met Asn

1

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<211> 20

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<220>

<223> Synthetic polymer

<400> 195

Ile Gln Glu Glu Tyr Tyr Arg Leu Phe Lys Asn Val Pro Cys Cys Phe  
1 5 10 15  
Gly Cys Leu Arg  
20

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<400> 196

Gly Cys Leu Arg  
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<211> 20

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<223> Synthetic polymer

<400> 197

Ser Gln Ser Phe Val Ile Ser Gly Gly Gly Ser Thr Val Thr Glu Asn  
1 5 10 15  
Val Val Asn Ser  
20

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<223> Synthetic polymer

<400> 198

Val Val Asn Ser  
1

<210> 199

<211> 20

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<223> Synthetic polymer

<400> 199

Thr	Ser	Asp	Thr	Ala	Thr	Asn	Ser	Thr	Leu	Pro	Ser	Ala	Glu	Val	Glu
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Leu	Gln	Ala	Lys												
			20												

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<212> PRT

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<223> Synthetic polymer

<400> 200

Leu	Gln	Ala	Lys
1			

<210> 201

<211> 20

<212> PRT

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<220>

<223> Synthetic polymer

<400> 201

Thr	Asn	Asp	Thr	Ala	Ala	Asn	Ser	Ala	Ser	Pro	Pro	Ala	Glu	Thr	Glu
1				5					10					15	
Leu	Gln	Ala	Met												
			20												

<210> 202

<211> 4

<212> PRT

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<400> 202

Leu	Gln	Ala	Met
1			

<210> 203

<211> 20

<212> PRT

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<223> Synthetic polymer

<400> 203

Thr	Ser	Asn	Thr	His	Thr	Thr	Ser	Ala	Ser	Pro	Pro	Glu	Glu	Thr	Glu
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Glu Thr Thr Val  
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<400> 209  
His Pro Gln Lys Thr His His Gly Lys Tyr Glu Ile Pro Ala Gln Ser  
1 5 10 15  
Pro Thr Cys Val  
20

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<220>  
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<400> 210  
Pro Thr Cys Val  
1

<210> 211  
<211> 20  
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<400> 211  
His Ser Trp Arg Lys Phe Tyr Thr Arg Leu Thr Asn Ser Arg His Gly  
1 5 10 15  
Glu Thr Thr Val  
20

<210> 212  
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<220>  
<223> Synthetic polymer

<400> 212

Glu Thr Thr Val

1

<210> 213

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<400> 213

Thr His Ile Thr His Gly Thr Ser Met Asn Arg Val Ile Glu Glu Asp

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Gly Thr Ser Ala

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<223> Synthetic polymer

<400> 214

Gly Thr Ser Ala

1

<210> 215

<211> 20

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<223> Synthetic polymer

<400> 215

Lys Arg Glu Lys Arg Gly Asn Gly Trp Val Lys Pro Gly Lys Gly Ser

1

5

10

15

Glu Thr Val Val

20

<210> 216

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<400> 216

Glu Thr Val Val

1

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<211> 20

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<220>

<223> Synthetic polymer

<400> 217

Arg	Thr	Gly	Pro	Pro	Gly	Pro	Ala	Ala	Thr	Tyr	His	Lys	Gln	Val	Ser
1				5					10					15	
Leu	Ser	His	Val												
			20												

<210> 218

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<220>

<223> Synthetic polymer

<400> 218

Leu	Ser	His	Val
1			

<210> 219

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 219

Leu	Val	His	Pro	Val	Ser	Gly	Val	Arg	Lys	Glu	Gln	Gly	Gly	Gly	Cys
1				5					10					15	
His	Ser	Asp	Thr												
			20												

<210> 220

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 220

His	Ser	Asp	Thr
1			

<210> 221

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 221

Trp	Arg	Ser	Gly	Thr	Ala	Ser	Ser	Val	Ser	Tyr	Pro	Lys	Gln	Met	Pro
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<220>  
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<400> 226  
Cys Thr His Val  
1

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<400> 227  
Pro Gly Pro Ser Trp Gln Gly Pro Lys Ala Gly Asp Ser Ile Leu Thr  
1 5 10 15  
Val Asp Val Ala  
20

<210> 228  
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<220>  
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<400> 228  
Val Asp Val Ala  
1

<210> 229  
<211> 20  
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<220>  
<223> Synthetic polymer

<400> 229  
Gln Gly Pro Glu Pro Arg Glu Gly Pro Val His Gly Gly Glu Ala Ala  
1 5 10 15  
Arg Gly Pro Glu  
20

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<400> 230

Arg Gly Pro Glu  
1

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<220>  
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<400> 231  
Pro Pro Glu Pro Pro Asp Arg Leu Ser Cys Asp Gly Ser Arg Val His  
1 5 10 15  
Leu Leu Tyr Lys  
20

<210> 232  
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<400> 232  
Leu Leu Tyr Lys  
1

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<400> 233  
Thr Ala Ser Pro Arg His Arg His Val Pro Pro Ser Phe Arg Val Met  
1 5 10 15  
Val Ser Gly Leu  
20

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<223> Synthetic polymer

<400> 234  
Val Ser Gly Leu  
1

<210> 235  
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<220>

<223> Synthetic polymer

<400> 235

Ser	Ser	Gly	Thr	Leu	Pro	Gly	Pro	Gly	Asn	Glu	Ala	Ser	Arg	Glu	Leu
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Glu	Ser	Tyr	Cys												
			20												

<210> 236

<211> 4

<212> PRT

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<220>

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<400> 236

Glu	Ser	Tyr	Cys
1			

<210> 237

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 237

Pro	Ser	Ile	Ala	Ser	Leu	Ser	Arg	Leu	Ser	Tyr	Thr	Thr	Ile	Ser	Thr
1				5					10					15	
Leu	Gly	Pro	Gly												
			20												

<210> 238

<211> 4

<212> PRT

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<220>

<223> Synthetic polymer

<400> 238

Leu	Gly	Pro	Gly
1			

<210> 239

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 239

Asn	Pro	Ser	Val	Ala	Thr	Phe	Ser	Leu	Ile	Asn	Gly	Asn	Ile	Cys	His
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

1	5	10	15
---	---	----	----

Glu Arg Tyr Val  
20

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<400> 240  
Glu Arg Tyr Val  
1

<210> 241  
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<400> 241  
Thr Arg Ala Lys Trp Thr Thr Pro Ser Arg Ser Ala Ala Lys Val Leu  
1 5 10 15  
Thr Ser Met Cys  
20

<210> 242  
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<400> 242  
Thr Ser Met Cys  
1

<210> 243  
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<400> 243  
Asp Ser Ser Ala Glu Thr Pro Leu Ala Gly Gly Leu Pro Arg Leu Ala  
1 5 10 15  
Glu Ser Pro Phe  
20

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<400> 244  
Glu Ser Pro Phe  
1

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<400> 245  
Ser Ser Gly Ala Thr Ala Gly Ser Ser Met Tyr Thr Ala Thr Cys Gln  
1 5 10 15  
Ala Ser Cys Ser  
20

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<400> 246  
Ala Ser Cys Ser  
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<210> 247  
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<400> 247  
Ser Glu Gly Asp Val Thr Met Ala Asn Thr Met Glu Glu Ile Leu Glu  
1 5 10 15  
Glu Ser Glu Ile  
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<400> 248

Glu Ser Glu Ile

1

<210> 249

<211> 20

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<223> Synthetic polymer

<400> 249

Phe Leu Phe Ala Phe Leu Asn Pro Cys Phe Asp Pro Leu Ile Tyr Gly

1

5

10

15

Tyr Phe Ser Leu

20

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<400> 250

Tyr Phe Ser Leu

1

<210> 251

<211> 20

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<220>

<223> Synthetic polymer

<400> 251

Lys Ser Leu Thr Ser Phe Ser Arg Trp Ala His Glu Leu Leu Leu Ser

1

5

10

15

Phe Arg Glu Lys

20

<210> 252

<211> 4

<212> PRT

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<220>

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<400> 252

Phe Arg Glu Lys

1

<210> 253

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 253

Gly Ser Gln Tyr Lys Glu Asp Ser Ser Ser Gln Gly Thr Val Cys Asn  
1 5 10 15  
Lys Asn Ser Ser  
20

<210> 254

<211> 4

<212> PRT

<213> Artificial Sequence

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<223> Synthetic polymer

<400> 254

Lys Asn Ser Ser  
1

<210> 255

<211> 20

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<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 255

Gln Asn Pro His Gly Glu Thr Leu Leu Tyr Arg Lys Ser Ala Glu Asn  
1 5 10 15  
Pro Asn Arg Asn  
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<210> 256

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<212> PRT

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<220>

<223> Synthetic polymer

<400> 256

Pro Asn Arg Asn  
1

<210> 257

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 257

Ser Glu Leu Ser Ser Ala Ser Lys Thr Glu Val Ser Ser Val Ser Ser





<212> PRT  
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<220>  
<223> Synthetic polymer

<400> 262  
Thr Ser Met Cys  
1

<210> 263  
<211> 20  
<212> PRT  
<213> Artificial Sequence

<220>  
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<400> 263  
Tyr Pro Leu Cys Asn Glu Asn Phe Lys Lys Thr Phe Lys Arg Ile Leu  
1 5 10 15  
His Ile Arg Ser  
20

<210> 264  
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<220>  
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<400> 264  
His Ile Arg Ser  
1

<210> 265  
<211> 20  
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<400> 265  
Leu Lys Leu Gln Val Trp Ser Gly Thr Glu Val Thr Ala Pro Gln Gly  
1 5 10 15  
Ala Thr Asp Arg  
20

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<400> 266

Ala Thr Asp Arg

1

<210> 267

<211> 20

<212> PRT

<213> Artificial Sequence

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<223> Synthetic polymer

<400> 267

Leu Leu Cys Pro Gln Lys Leu Lys Ile Gln Pro His Ser Ser Leu Glu  
1 5 10 15  
His Cys Trp Lys  
20

<210> 268

<211> 4

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<223> Synthetic polymer

<400> 268

His Cys Trp Lys  
1

<210> 269

<211> 20

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<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 269

Lys Ile Phe Cys Ile Lys Lys Gln Pro Leu Pro Ser Gln His Ser Arg  
1 5 10 15  
Ser Val Ser Ser  
20

<210> 270

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 270

Ser Val Ser Ser  
1

<210> 271

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 271

His	Lys	Phe	Met	Ser	Leu	Cys	Thr	Ser	Asn	Ala	Leu	Pro	Asn	Tyr	Leu
1				5					10					15	
Phe	His	Gln	Asp												
			20												

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<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 272

Phe	His	Gln	Asp
1			

<210> 273

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 273

Lys	Thr	Lys	Gln	Ile	Gln	Asn	Ala	Ile	Leu	His	Leu	Phe	Thr	Thr	His
1				5					10					15	
Arg	Ile	Gly	Thr												
			20												

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<211> 4

<212> PRT

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<220>

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<400> 274

Arg	Ile	Gly	Thr
1			

<210> 275

<211> 20

<212> PRT

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<220>

<223> Synthetic polymer

<400> 275

Lys	Thr	Lys	Gln	Ile	Gln	Ser	Gly	Ile	Leu	Arg	Leu	Phe	Ser	Leu	Pro
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<220>  
<223> Synthetic polymer

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<400> 276
His Ser Arg Ala
1
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```
<210> 277
<211> 20
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<213> Artificial Sequence
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<220>  
<223> Synthetic polymer

```
<400> 277
Lys Thr Lys Glu Ile His Arg Ala Ile Ile Lys Leu Leu Gly Leu Lys
 1           5           10           15
Lys Ala Ser Lys
      20
```

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<211> 4
<212> PRT
<213> Artificial Sequence
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<220>  
<223> Synthetic polymer

<400> 278  
Lys Ala Ser Lys  
1

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<210> 279
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<220>  
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<400> 279
Lys Thr Lys Glu Ile His Gly Ala Ile Val Arg Met Leu Leu Glu Lys
 1             5             10             15
Arg Arg Arg Val
      20
```

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Arg Arg Arg Val  
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<210> 281  
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<400> 281  
Ala Gly Val Gln Leu Leu Pro Phe Glu Pro Pro Thr Gly Lys Ala Leu  
1 5 10 15  
Ser Arg Lys Asp  
20

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<400> 282  
Ser Arg Lys Asp  
1

<210> 283  
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<212> PRT  
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<220>  
<223> Synthetic polymer

<400> 283  
Leu Ala Arg His Arg Val Thr Ser Tyr Thr Ser Ser Ser Val Asn Val  
1 5 10 15  
Ser Ser Asn Leu  
20

<210> 284  
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<220>  
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<400> 284

Ser Ser Asn Leu

1

<210> 285

<211> 20

<212> PRT

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<220>

<223> Synthetic polymer

<400> 285

Pro Lys Asp Ser Arg Pro Ser Phe Val Gly Ser Ser Ser Gly His Thr  
1 5 10 15  
Ser Thr Thr Leu  
20

<210> 286

<211> 4

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<220>

<223> Synthetic polymer

<400> 286

Ser Thr Thr Leu  
1

<210> 287

<211> 20

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<213> Artificial Sequence

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<223> Synthetic polymer

<400> 287

Pro Gly Leu Glu Gly Pro Gly Pro Asp Gly Asp Gly Gln Met Gln Leu  
1 5 10 15  
Val Thr Ser Leu  
20

<210> 288

<211> 4

<212> PRT

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<220>

<223> Synthetic polymer

<400> 288

Val Thr Ser Leu  
1

<210> 289

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 289

Glu Gly Cys Ile Pro Glu Gly Asp Val Arg Glu Gly Gln Met Gln Leu  
1 5 10 15  
Val Thr Ser Leu  
20

<210> 290

<211> 4

<212> PRT

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<220>

<223> Synthetic polymer

<400> 290

Val Thr Ser Leu  
1

<210> 291

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 291

Gly Leu Arg Ala His Leu Gln Asp Leu Tyr His Leu Glu Leu Leu Leu  
1 5 10 15  
Gly Gln Ile Ala  
20

<210> 292

<211> 4

<212> PRT

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<220>

<223> Synthetic polymer

<400> 292

Gly Gln Ile Ala  
1

<210> 293

<211> 20

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<220>

<223> Synthetic polymer

<400> 293

Val Lys Ala Ser Thr Thr Arg Thr Ser Ala Arg Tyr Ser Ser Gly Thr

1	5	10	15
Gln Asp Ile His			
20			

<210> 294  
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<220>  
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<400> 294  
 Gln Asp Ile His  
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<210> 295  
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<400> 295  
 Pro Gly Leu Glu Gly Pro Gly Pro Asp Gly Asp Gly Gln Met Gln Leu  
 1 5 10 15  
 Val Thr Ser Leu  
 20

<210> 296  
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<220>  
 <223> Synthetic polymer

<400> 296  
 Val Thr Ser Leu  
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<210> 297  
 <211> 20  
 <212> PRT  
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<220>  
 <223> Synthetic polymer

<400> 297  
 Ile Gly Ala Ser Glu Gln Cys Gln Gly Tyr Lys Cys His Gly Tyr Ser  
 1 5 10 15  
 Thr Thr Glu Trp  
 20

<210> 298  
 <211> 4



<212> PRT  
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<220>  
<223> Synthetic polymer

<400> 298  
Thr Thr Glu Trp  
1

<210> 299  
<211> 20  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic polymer

<400> 299  
Thr Thr Ser Gly Thr Gly His Asn Gln Thr Arg Ala Leu Arg Ala Ser  
1 5 10 15  
Glu Ser Gly Ile  
20

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<212> PRT  
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<220>  
<223> Synthetic polymer

<400> 300  
Glu Ser Gly Ile  
1

<210> 301  
<211> 20  
<212> PRT  
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<220>  
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<400> 301  
Gly Arg Gly Asn Gly Asp Pro Gly Gly Gly Met Glu Lys Asp Gly Pro  
1 5 10 15  
Glu Trp Asp Leu  
20

<210> 302  
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<212> PRT  
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<220>  
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<400> 302

Glu Trp Asp Leu  
1

<210> 303  
<211> 20  
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<220>  
<223> Synthetic polymer

<400> 303  
Leu Ser Thr Leu His Cys Gln Gly Thr Ala Leu Leu Asp Lys Thr Arg  
1 5 10 15  
Tyr Thr Glu Cys  
20

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<400> 304  
Tyr Thr Glu Cys  
1

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<400> 305  
Ala Ser Ser Leu Asn His Thr Ile Leu Ala Gly Val His Ser Asn Asp  
1 5 10 15  
His Ser Val Val  
20

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<400> 306  
His Ser Val Val  
1

<210> 307  
<211> 20  
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<220>

<223> Synthetic polymer

<400> 307

Asp	Pro	Ser	Ser	Cys	Ile	Met	Asp	Lys	Asn	Ala	Ala	Leu	Gln	Asn	Gly
1				5				10					15		
Ile	Phe	Cys	Asn												
			20												

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<223> Synthetic polymer

<400> 308

Ile	Phe	Cys	Asn
1			

<210> 309

<211> 20

<212> PRT

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<220>

<223> Synthetic polymer

<400> 309

Leu	Glu	Leu	Arg	Asn	Thr	Phe	Arg	Glu	Ile	Leu	Cys	Gly	Cys	Asn	Gly
1				5				10						15	
Met	Asn	Leu	Gly												
			20												

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<212> PRT

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<400> 310

Met	Asn	Leu	Gly
1			

<210> 311

<211> 20

<212> PRT

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<220>

<223> Synthetic polymer

<400> 311

Phe	Lys	Glu	Ile	Ile	Cys	Cys	Tyr	Pro	Leu	Gly	Gly	Leu	Cys	Asp	Leu
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----



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<400> 316  
Thr Cys Ser Trp  
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<400> 317  
Val Lys Trp Lys Pro Ser Pro Leu Met Thr Asn Asn Asn Val Val Lys  
1 5 10 15  
Val Asp Ser Val  
20

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<400> 318  
Val Asp Ser Val  
1

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<400> 319  
Glu Gly Leu Gln Ser Pro Ala Pro Pro Ile Ile Gly Val Gln His Gln  
1 5 10 15  
Ala Asp Ala Leu  
20

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<400> 320

Ala Asp Ala Leu  
1

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<400> 321  
Asn Asp Tyr His Asp Val Val Val Val Asp Val Glu Asp Asp Pro Asp  
1 5 10 15  
Glu Met Ala Val  
20

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<400> 322  
Glu Met Ala Val  
1

<210> 323  
<211> 20  
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<220>  
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<400> 323  
Pro Asn Val Ser Tyr Ala Ser Val Ile Leu Arg Asp Tyr Lys Gln Ser  
1 5 10 15  
Ser Ser Thr Leu  
20

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<400> 324  
Ser Ser Thr Leu  
1

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<400> 325

Gln Phe Val Pro Thr Val Cys Asn Gly Arg Glu Val Val Asp Ser Thr  
1 5 10 15  
Thr Ser Ser Leu  
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<210> 326

<211> 4

<212> PRT

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<220>

<223> Synthetic polymer

<400> 326

Thr Ser Ser Leu  
1

<210> 327

<211> 20

<212> PRT

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<223> Synthetic polymer

<400> 327

Thr Tyr Val Pro Thr Val Cys Asn Gly Arg Glu Val Leu Asp Ser Thr  
1 5 10 15  
Thr Ser Ser Leu  
20

<210> 328

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<220>

<223> Synthetic polymer

<400> 328

Thr Ser Ser Leu  
1

<210> 329

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 329

Leu Glu Ala Pro Ala Leu Ala Thr Lys Gln Thr Tyr Val Thr Tyr Thr

1	5	10	15
Asn His Ala Ile			
20			

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<400> 330  
 Asn His Ala Ile  
 1

<210> 331  
 <211> 20  
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<220>  
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<400> 331  
 Ser Ser Pro Lys Tyr Asp Thr Leu Ile Ile Arg Asp Tyr Thr Gln Ser  
 1 5 10 15  
 Ser Ser Ser Leu  
 20

<210> 332  
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<220>  
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<400> 332  
 Ser Ser Ser Leu  
 1

<210> 333  
 <211> 20  
 <212> PRT  
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<220>  
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<400> 333  
 Leu Lys Ala Thr Ser Thr Val Ala Ala Pro Pro Lys Gly Glu Asp Ala  
 1 5 10 15  
 Glu Ala His Lys  
 20

<210> 334  
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<212> PRT  
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<220>  
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<400> 334  
Glu Ala His Lys  
1

<210> 335  
<211> 20  
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<220>  
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<400> 335  
Val Asp Pro Asn Ser Pro Ala Ala Lys Lys Lys Tyr Val Ser Tyr Asn  
1 5 10 15  
Asn Leu Val Ile  
20

<210> 336  
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<400> 336  
Asn Leu Val Ile  
1

<210> 337  
<211> 20  
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<220>  
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<400> 337  
Leu Glu Thr Asn Thr Ser Ser Thr Lys Thr Thr Tyr Ile Ser Tyr Ser  
1 5 10 15  
Asn His Ser Ile  
20

<210> 338  
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<400> 338

Asn His Ser Ile

1

<210> 339

<211> 20

<212> PRT

<213> Artificial Sequence

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<223> Synthetic polymer

<400> 339

Asp Thr Gly Gly Asp Thr Val Gly Tyr Thr Glu Thr Ser Ala Asn Val  
1 5 10 15

Lys Thr Met Gly  
20

<210> 340

<211> 4

<212> PRT

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<220>

<223> Synthetic polymer

<400> 340

Lys Thr Met Gly  
1

<210> 341

<211> 20

<212> PRT

<213> Artificial Sequence

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<223> Synthetic polymer

<400> 341

Arg Trp Arg Lys Ile Pro Lys Arg Pro Gly Ser Val His Arg Thr Pro  
1 5 10 15

Ser Arg Gln Cys  
20

<210> 342

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<220>

<223> Synthetic polymer

<400> 342

Ser Arg Gln Cys  
1

<210> 343

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 343

Phe Lys Lys Thr Phe Lys His Leu Leu Met Cys His Tyr Lys Asn Ile  
1 5 10 15  
Gly Ala Thr Arg  
20

<210> 344

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<212> PRT

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<223> Synthetic polymer

<400> 344

Gly Ala Thr Arg  
1

<210> 345

<211> 20

<212> PRT

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<223> Synthetic polymer

<400> 345

Gln Gln Tyr Gln Gln Arg Gln Ser Val Ile Phe His Lys Arg Ala Pro  
1 5 10 15  
Glu Gln Ala Leu  
20

<210> 346

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<223> Synthetic polymer

<400> 346

Glu Gln Ala Leu  
1

<210> 347

<211> 20

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<400> 347

Phe Lys Lys Thr Phe Arg His Leu Leu Leu Cys Gln Tyr Arg Asn Ile

1	5	10	15
Gly Thr Ala Arg			
20			

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 <223> Synthetic polymer

<400> 348  
 Gly Thr Ala Arg  
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<210> 349  
 <211> 20  
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<220>  
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<400> 349  
 Arg Trp Lys Lys Lys Lys Val Glu Glu Lys Leu Tyr Trp Gln Gly Asn  
 1 5 10 15  
 Ser Lys Leu Pro  
 20

<210> 350  
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<220>  
 <223> Synthetic polymer

<400> 350  
 Ser Lys Leu Pro  
 1

<210> 351  
 <211> 20  
 <212> PRT  
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<220>  
 <223> Synthetic polymer

<400> 351  
 Ser Ala Ser Ala Thr Ser Ser Phe Ile Ser Ser Pro Tyr Thr Ser Val  
 1 5 10 15  
 Asp Glu Tyr Ser  
 20

<210> 352  
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<220>  
<223> Synthetic polymer

<400> 352  
Asp Glu Tyr Ser  
1

<210> 353  
<211> 20  
<212> PRT  
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<220>  
<223> Synthetic polymer

<400> 353  
Ser Thr Ser Thr Thr Ala Ser Phe Val Ser Ser Ser His Met Ser Val  
1 5 10 15  
Glu Glu Gly Ser  
20

<210> 354  
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<220>  
<223> Synthetic polymer

<400> 354  
Glu Glu Gly Ser  
1

<210> 355  
<211> 20  
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<220>  
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<400> 355  
Trp Val His Pro Leu Ala Gly Asn Asp Gly Pro Glu Ala Gln Gln Glu  
1 5 10 15  
Thr Asp Pro Ser  
20

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<400> 356

Thr Asp Pro Ser  
1

<210> 357  
<211> 20  
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<220>  
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<400> 357  
Ala Leu Ser Ser Glu Gln Met Ser Arg Thr Asn Tyr Gln Ser Phe His  
1 5 10 15  
Phe Asn Lys Thr  
20

<210> 358  
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<400> 358  
Phe Asn Lys Thr  
1

<210> 359  
<211> 20  
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<220>  
<223> Synthetic polymer

<400> 359  
Asn Met Val Thr Asn Ser Val Leu Leu Asn Gly His Ser Met Lys Gln  
1 5 10 15  
Glu Met Ala Met  
20

<210> 360  
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<220>  
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<400> 360  
Glu Met Ala Met  
1

<210> 361  
<211> 20  
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<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 361

Leu	Pro	Arg	Glu	Gly	Pro	Gly	Cys	Ser	His	Leu	Pro	Leu	Thr	Ile	Pro
1				5					10					15	
Ala	Trp	Asp	Ile												
			20												

<210> 362

<211> 4

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<220>

<223> Synthetic polymer

<400> 362

Ala	Trp	Asp	Ile
1			

<210> 363

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 363

Lys	Pro	Gln	Gln	Glu	Leu	Val	Met	Glu	Glu	Leu	Lys	Glu	Thr	Thr	Asn
1				5					10					15	
Ser	Ser	Glu	Ile												
			20												

<210> 364

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 364

Ser	Ser	Glu	Ile
1			

<210> 365

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 365

Lys	Gln	Ala	Ser	Pro	Val	Ala	Phe	Lys	Lys	Ile	Asn	Asn	Asn	Asp	Asp
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

1	5	10	15
Asn Glu Lys Ile			
20			

<210> 366  
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 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

<400> 366  
 Asn Glu Lys Ile  
 1

<210> 367  
 <211> 20  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

<400> 367  
 Asn Leu Glu Val Arg Lys Asn Ser Gly Pro Asn Asp Ser Phe Thr Glu  
 1 5 10 15  
 Ala Thr Asn Val  
 20

<210> 368  
 <211> 4  
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<220>  
 <223> Synthetic polymer

<400> 368  
 Ala Thr Asn Val  
 1

<210> 369  
 <211> 20  
 <212> PRT  
 <213> Artificial Sequence

<220>  
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<400> 369  
 Thr Val His Thr Glu Val Ser Lys Gly Ser Leu Arg Leu Ser Gly Arg  
 1 5 10 15  
 Ser Asn Pro Ile  
 20

<210> 370  
 <211> 4



<212> PRT  
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<220>  
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<400> 370  
Ser Asn Pro Ile  
1

<210> 371  
<211> 20  
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<220>  
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<400> 371  
Gly Phe Leu Asn Asn Gly Ile Lys Ala Asp Leu Val Ser Leu Ile His  
1 5 10 15  
Cys Leu His Met  
20

<210> 372  
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<220>  
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<400> 372  
Cys Leu His Met  
1

<210> 373  
<211> 20  
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<220>  
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<400> 373  
Ala Asp Ser Val Ser Ser Asn His Thr Leu Ser Ser Asn Ala Thr Arg  
1 5 10 15  
Glu Thr Leu Tyr  
20

<210> 374  
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<220>  
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<400> 374

Glu Thr Leu Tyr

1

<210> 375

<211> 20

<212> PRT

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<223> Synthetic polymer

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Gln Ser Pro Thr Leu Met Asp Thr Ala Ser Gly Phe Gly Asp Pro Pro

1

5

10

15

Glu Thr Arg Thr

20

<210> 376

<211> 4

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<223> Synthetic polymer

<400> 376

Glu Thr Arg Thr

1

<210> 377

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 377

Ala Ser Glu Ser Cys Asn Lys Asn Glu Gly Asp Pro Ala Leu Pro Thr

1

5

10

15

His Gly Asp Leu

20

<210> 378

<211> 4

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<223> Synthetic polymer

<400> 378

His Gly Asp Leu

1

<210> 379

<211> 20

<212> PRT

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<220>

<223> Synthetic polymer

<400> 379

Ser Val Lys Thr Gln Gln Ile His Thr Arg Met Leu Arg Leu Phe Ser  
1 5 10 15  
Leu Lys Arg Tyr  
20

<210> 380

<211> 4

<212> PRT

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<220>

<223> Synthetic polymer

<400> 380

Leu Lys Arg Tyr  
1

<210> 381

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 381

Lys Ile Lys Glu Ile Arg Asn Ser Val Val Leu Thr Leu Ser Arg Lys  
1 5 10 15  
Arg Gly Glu Phe  
20

<210> 382

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 382

Arg Gly Glu Phe  
1

<210> 383

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 383

Val Lys Thr Lys Gln Ile Arg Asp His Ile Val Lys Val Phe Phe Phe

1	5	10	15
Lys Lys Val Thr			
20			

<210> 384  
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<220>  
 <223> Synthetic polymer

<400> 384  
 Lys Lys Val Thr  
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<210> 385  
 <211> 20  
 <212> PRT  
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<220>  
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<400> 385  
 Lys Glu Val Lys Ala Ala Leu Lys Arg Leu Ile His Arg Thr Leu Gly  
 1 5 10 15  
 Ser Gln Lys Leu  
 20

<210> 386  
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<220>  
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<400> 386  
 Ser Gln Lys Leu  
 1

<210> 387  
 <211> 20  
 <212> PRT  
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<220>  
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<400> 387  
 Val Lys Asn Ala Leu Ser Arg Thr Phe His Lys Val Leu Ala Leu Arg  
 1 5 10 15  
 Asn Cys Ile Pro  
 20

<210> 388  
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<212> PRT  
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<220>  
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<400> 388  
Asn Cys Ile Pro  
1

<210> 389  
<211> 20  
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<220>  
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<400> 389  
Lys Val Ala Met Lys Lys Thr Phe Phe Ser Lys Leu Tyr Pro Glu Lys  
1 5 10 15  
Asn Val Met Met  
20

<210> 390  
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<220>  
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<400> 390  
Asn Val Met Met  
1

<210> 391  
<211> 20  
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<220>  
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<400> 391  
Lys Glu Leu Lys Val Ala Met Lys Arg Thr Phe Leu Ser Thr Leu Tyr  
1 5 10 15  
Ser Ser Gly Thr  
20

<210> 392  
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<220>  
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<400> 392

Ser Ser Gly Thr  
1

<210> 393  
<211> 20  
<212> PRT  
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<220>  
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<400> 393  
Thr Leu Arg Asn Lys Glu Val Lys Asp Ala Leu Cys Arg Ala Val Gly  
1 5 10 15  
Gly Lys Phe Ser  
20

<210> 394  
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<220>  
<223> Synthetic polymer

<400> 394  
Gly Lys Phe Ser  
1

<210> 395  
<211> 20  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic polymer

<400> 395  
Lys Glu Val His Gln Ala Leu Arg Lys Ile Leu Cys Ile Lys Gln Thr  
1 5 10 15  
Glu Thr Leu Asp  
20

<210> 396  
<211> 4  
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<220>  
<223> Synthetic polymer

<400> 396  
Glu Thr Leu Asp  
1

<210> 397  
<211> 20  
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<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 397

Met	Met	Ala	Leu	Lys	Lys	Ile	Phe	Gly	Arg	Lys	Leu	Phe	Lys	Asp	Trp
1				5				10						15	
Gln	Gln	His	His												
				20											

<210> 398

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 398

Gln	Gln	His	His
1			

<210> 399

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 399

Leu	Arg	Asn	Arg	Asp	Met	Lys	Ala	Ala	Leu	Arg	Lys	Leu	Phe	Asn	Lys
1				5					10					15	
Arg	Ile	Ser	Ser												
				20											

<210> 400

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 400

Arg	Ile	Ser	Ser
1			

<210> 401

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 401

Leu	Arg	Asn	Trp	Asp	Met	Lys	Ala	Ala	Leu	Gln	Lys	Leu	Phe	Ser	Lys
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----





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<220>  
<223> Synthetic polymer

<400> 406  
Gln Arg Pro Lys  
1

<210> 407  
<211> 20  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic polymer

<400> 407  
Arg Asp Met Lys Gly Ala Leu Ser Arg Val Ile His Gln Lys Lys Thr  
1 5 10 15  
Phe Phe Ser Leu  
20

<210> 408  
<211> 4  
<212> PRT  
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<220>  
<223> Synthetic polymer

<400> 408  
Phe Phe Ser Leu  
1

<210> 409  
<211> 20  
<212> PRT  
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<220>  
<223> Synthetic polymer

<400> 409  
Arg Asp Met Lys Gly Ala Leu Glu Arg Val Ile Cys Lys Arg Lys Asn  
1 5 10 15  
Pro Phe Leu Leu  
20

<210> 410  
<211> 4  
<212> PRT  
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<220>  
<223> Synthetic polymer

<400> 410

Pro Phe Leu Leu

1

<210> 411

<211> 20

<212> PRT

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<220>

<223> Synthetic polymer

<400> 411

Arg Asn Arg Tyr Leu Lys Gly Ala Leu Lys Lys Val Val Gly Arg Val  
1 5 10 15

Val Phe Ser Val  
20

<210> 412

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 412

Val Phe Ser Val  
1

<210> 413

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 413

Asn Gln Glu Ile Lys Ser Ser Leu Arg Lys Leu Ile Trp Val Arg Lys  
1 5 10 15

Ile His Ser Pro  
20

<210> 414

<211> 4

<212> PRT

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<220>

<223> Synthetic polymer

<400> 414

Ile His Ser Pro  
1

<210> 415

<211> 20

<212> PRT

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<223> Synthetic polymer

<400> 415

Met	His	Pro	Ile	Pro	Tyr	Pro	Gly	Gly	Val	Gln	Ser	Leu	Ala	Gly	Asn
1				5					10					15	
Arg	Asp	Met	Glu												
			20												

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<220>

<223> Synthetic polymer

<400> 416

Arg	Asp	Met	Glu
1			

<210> 417

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 417

Leu	Arg	Asn	Ser	Glu	Val	Lys	Asn	Thr	Leu	Lys	Arg	Val	Leu	Gly	Val
1				5					10					15	
Glu	Arg	Ala	Leu												
			20												

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<211> 4

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<400> 418

Glu	Arg	Ala	Leu
1			

<210> 419

<211> 20

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<223> Synthetic polymer

<400> 419

Val	Met	Arg	Ala	Leu	Arg	Arg	Val	Leu	Gly	Lys	Tyr	Met	Leu	Pro	Ala
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

1	5	10	15
His Ser Thr Leu			
20			

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<400> 420  
 His Ser Thr Leu  
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<210> 421  
 <211> 20  
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<400> 421  
 Cys Pro Ile Phe Val Ile Thr Ile Glu Asn Tyr Cys Asn Leu Pro Gln  
 1 5 10 15  
 Arg Lys Phe Pro  
 20

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<220>  
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<400> 422  
 Arg Lys Phe Pro  
 1

<210> 423  
 <211> 20  
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<220>  
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<400> 423  
 Asn Lys Asp Met Lys Glu Ala Phe Lys Arg Leu Met Pro Arg Ile Phe  
 1 5 10 15  
 Phe Cys Lys Lys  
 20

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<220>  
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<400> 424  
Phe Cys Lys Lys  
1

<210> 425  
<211> 20  
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<220>  
<223> Synthetic polymer

<400> 425  
Asn Lys Glu Val Lys Glu Gly Phe Lys Arg Leu Val Ala Arg Val Phe  
1 5 10 15  
Leu Ile Lys Lys  
20

<210> 426  
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<220>  
<223> Synthetic polymer

<400> 426  
Leu Ile Lys Lys  
1

<210> 427  
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<213> Artificial Sequence

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<400> 427  
Arg Asn Met Glu Val Lys Gly Ala Leu Arg Arg Leu Leu Gly Lys Gly  
1 5 10 15  
Arg Glu Val Gly  
20

<210> 428  
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<220>  
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<400> 428

Arg Glu Val Gly

1

<210> 429

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 429

Ser Leu Arg Asn Lys Asp Val Lys Ala Ala Leu Arg Lys Val Ala Thr

1

5

10

15

Arg Asn Phe Pro

20

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<211> 4

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<223> Synthetic polymer

<400> 430

Arg Asn Phe Pro

1

<210> 431

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 431

Lys Gly Ala Trp Gln Lys Leu Leu Trp Lys Phe Ser Gly Leu Thr Ser

1

5

10

15

Lys Leu Ala Thr

20

<210> 432

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 432

Lys Leu Ala Thr

1

<210> 433

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 433

Lys	Gly	Ala	Trp	His	Lys	Leu	Leu	Glu	Lys	Phe	Ser	Gly	Leu	Thr	Ser
1				5					10					15	
Lys	Leu	Gly	Thr												
			20												

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<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 434

Lys	Leu	Gly	Thr
1			

<210> 435

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 435

Arg	Ala	Leu	Arg	Arg	Leu	Leu	Gly	Lys	Glu	Arg	Asp	Ser	Arg	Glu	Ser
1				5					10					15	
Trp	Arg	Ala	Ala												
			20												

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<212> PRT

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<220>

<223> Synthetic polymer

<400> 436

Trp	Arg	Ala	Ala
1			

<210> 437

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 437

Arg	Ala	Phe	Arg	Arg	Leu	Leu	Gly	Lys	Glu	Arg	Asp	Ser	Arg	Glu	Ser
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1	5	10	15
Trp Arg Ala Ala			
20			

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<220>  
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<400> 438  
 Trp Arg Ala Ala  
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<210> 439  
 <211> 20  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

<400> 439  
 Leu Arg Asn Lys His Val Lys Gly Ala Ala Lys Arg Leu Leu Gly Trp  
 1 5 10 15  
 Glu Trp Gly Lys  
 20

<210> 440  
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<220>  
 <223> Synthetic polymer

<400> 440  
 Glu Trp Gly Lys  
 1

<210> 441  
 <211> 20  
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<220>  
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<400> 441  
 Ile Tyr Thr Leu Arg Asn Lys Val Val Arg Gly Ala Val Lys Arg Leu  
 1 5 10 15  
 Met Gly Trp Glu  
 20

<210> 442  
 <211> 4



<212> PRT  
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<220>  
<223> Synthetic polymer

<400> 442  
Met Gly Trp Glu  
1

<210> 443  
<211> 20  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic polymer

<400> 443  
Ala Leu Lys Arg Ala Leu Gly Arg Phe Lys Gly Pro Gln Arg Val Ser  
1 5 10 15  
Gly Gly Val Phe  
20

<210> 444  
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<220>  
<223> Synthetic polymer

<400> 444  
Gly Gly Val Phe  
1

<210> 445  
<211> 20  
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<220>  
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<400> 445  
Leu Lys Lys Leu Met Arg Phe His His Lys Ser Thr Lys Ile Lys Arg  
1 5 10 15  
Asn Cys Lys Ser  
20

<210> 446  
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<220>  
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<400> 446

Asn Cys Lys Ser

1

<210> 447

<211> 20

<212> PRT

<213> Artificial Sequence

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<223> Synthetic polymer

<400> 447

Arg	Asn	Pro	Asp	Val	Gln	Ser	Ala	Ile	Trp	Arg	Met	Leu	Thr	Gly	Arg
1				5					10					15	
Arg	Ser	Leu	Ala												
			20												

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<211> 4

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<220>

<223> Synthetic polymer

<400> 448

Arg	Ser	Leu	Ala
1			

<210> 449

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 449

Arg	Asn	Pro	Asp	Val	Gln	Gly	Ala	Leu	Trp	Gln	Ile	Phe	Leu	Gly	Arg
1				5					10					15	
Arg	Ser	Leu	Thr												
			20												

<210> 450

<211> 4

<212> PRT

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<220>

<223> Synthetic polymer

<400> 450

Arg	Ser	Leu	Thr
1			

<210> 451

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 451

Arg	Asn	Thr	Asp	Val	Gln	Gly	Ala	Leu	Cys	Gln	Leu	Leu	Val	Gly	Glu
1				5					10					15	
Arg	Ser	Leu	Thr												
			20												

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<211> 4

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<223> Synthetic polymer

<400> 452

Arg	Ser	Leu	Thr
1			

<210> 453

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 453

Glu	Met	Lys	Ala	Ala	Ile	Lys	Arg	Val	Cys	Lys	Gln	Leu	Val	Ile	Tyr
1				5					10					15	
Lys	Arg	Ile	Ser												
			20												

<210> 454

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 454

Lys	Arg	Ile	Ser
1			

<210> 455

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 455

Lys	Thr	Lys	Gln	Ile	Gln	Tyr	Gly	Ile	Ile	Arg	Leu	Leu	Ser	Lys	His
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

1	5	10	15
---	---	----	----

Arg Phe Ser Arg  
20

<210> 456  
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<220>  
<223> Synthetic polymer

<400> 456  
Arg Phe Ser Arg  
1

<210> 457  
<211> 20  
<212> PRT  
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<220>  
<223> Synthetic polymer

<400> 457  
Ile Lys Thr Lys Gln Ile Gln Arg Ser Ile Ile Arg Leu Phe Ser Gly  
1 5 10 15  
Gln Ser Arg Ala  
20

<210> 458  
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<220>  
<223> Synthetic polymer

<400> 458  
Gln Ser Arg Ala  
1

<210> 459  
<211> 20  
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<220>  
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<400> 459  
Arg Val Leu Ala Met Phe Lys Ile Ser Cys Asp Lys Asp Leu Gln Ala  
1 5 10 15  
Val Gly Gly Lys  
20

<210> 460  
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<220>  
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<400> 460  
Val Gly Gly Lys  
1

<210> 461  
<211> 20  
<212> PRT  
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<220>  
<223> Synthetic polymer

<400> 461  
Ser Val Lys Thr Lys Glu Ile Arg Lys Gly Ile Leu Lys Phe Phe His  
1 5 10 15  
Lys Ser Gln Ala  
20

<210> 462  
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<400> 462  
Lys Ser Gln Ala  
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<210> 463  
<211> 20  
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<220>  
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<400> 463  
Ser Ala Lys Thr Lys Glu Ile Arg Arg Ala Ile Phe Arg Met Phe His  
1 5 10 15  
His Ile Lys Ile  
20

<210> 464  
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<400> 464

His Ile Lys Ile

1

<210> 465

<211> 20

<212> PRT

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<400> 465

Leu Val Tyr Gly Ala Lys Thr Thr Gln Ile Arg Ile His Val Val Lys

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10

15

Met Phe Cys Ser

20

<210> 466

<211> 4

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<220>

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<400> 466

Met Phe Cys Ser

1

<210> 467

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 467

Arg Thr Lys Glu Ile Arg Ser Arg Leu Leu Lys Leu Leu His Leu Gly

1

5

10

15

Lys Thr Ser Ile

20

<210> 468

<211> 4

<212> PRT

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<223> Synthetic polymer

<400> 468

Lys Thr Ser Ile

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<210> 469

<211> 20

<212> PRT

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<220>

<223> Synthetic polymer

<400> 469

Lys Glu Val Lys Lys Ala Leu Ala Asn Val Ile Ser Arg Lys Arg Thr  
1 5 10 15  
Ser Ser Phe Leu  
20

<210> 470

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 470

Ser Ser Phe Leu  
1

<210> 471

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 471

Arg Asn Lys Asp Val Lys Asp Ala Ala Glu Lys Val Leu Arg Ser Lys  
1 5 10 15  
Val Asp Ser Ser  
20

<210> 472

<211> 4

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<220>

<223> Synthetic polymer

<400> 472

Val Asp Ser Ser  
1

<210> 473

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 473

Met Leu Ser Lys Glu Glu Leu Pro Gln Arg Lys Met Cys Leu Lys Ala





<212> PRT  
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<220>  
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<400> 478  
Ser Arg Asn Val  
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<210> 479  
<211> 20  
<212> PRT  
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<220>  
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<400> 479  
Asn Arg Glu Val Lys Glu Ala Leu Lys Lys Leu Ala Tyr Cys Gln Ala  
1 5 10 15  
Ser Arg Ser Asp  
20

<210> 480  
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<220>  
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<400> 480  
Ser Arg Ser Asp  
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<210> 481  
<211> 20  
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<220>  
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<400> 481  
Tyr Ser Leu Arg Asn Lys His Ile Lys Gly Ala Met Lys Thr Phe Phe  
1 5 10 15  
Arg Gly Lys Gln  
20

<210> 482  
<211> 4  
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<220>  
<223> Synthetic polymer

<400> 482

Arg Gly Lys Gln  
1

<210> 483  
<211> 20  
<212> PRT  
<213> Artificial Sequence

<220>  
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<400> 483  
Tyr Ser Leu Arg Asn Lys Asp Ile Lys Arg Ala Leu Lys Met Ser Phe  
1 5 10 15  
Arg Gly Lys Gln  
20

<210> 484  
<211> 4  
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<220>  
<223> Synthetic polymer

<400> 484  
Arg Gly Lys Gln  
1

<210> 485  
<211> 20  
<212> PRT  
<213> Artificial Sequence

<220>  
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<400> 485  
Ala Leu Gly Ile His Leu Leu Trp Gly Thr Met Lys Gly Gln Phe Phe  
1 5 10 15  
Lys Lys Cys Pro  
20

<210> 486  
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<220>  
<223> Synthetic polymer

<400> 486  
Lys Lys Cys Pro  
1

<210> 487  
<211> 20  
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<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 487

Leu Gly Arg Leu Leu Ser Arg Ala Thr Phe Phe Asn Gly Asp Ile Thr  
1 5 10 15  
Ala Gly Leu Ser  
20

<210> 488

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 488

Ala Gly Leu Ser  
1

<210> 489

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 489

Leu Gly Arg Leu Leu Leu Arg Ala Thr Ser Leu Lys Glu Gly Thr Ile  
1 5 10 15  
Ala Lys Leu Ser  
20

<210> 490

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 490

Ala Lys Leu Ser  
1

<210> 491

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 491

Asn Val Lys Gly Ala Leu Arg Asn Leu Val Arg Ser Ile Ser Ala Leu

1                      5                      10                      15  
 Ser Asp Ser Gly  
                     20

<210> 492  
 <211> 4  
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<220>  
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<400> 492  
 Ser Asp Ser Gly  
 1

<210> 493  
 <211> 20  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

<400> 493  
 Leu Arg Asn Lys Asp Val Lys Val Ala Leu Lys Lys Ile Leu Asn Lys  
 1                      5                      10                      15  
 Asn Ala Phe Ser  
                     20

<210> 494  
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<220>  
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<400> 494  
 Asn Ala Phe Ser  
 1

<210> 495  
 <211> 20  
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<220>  
 <223> Synthetic polymer

<400> 495  
 Leu Arg Asn Lys Asp Val Lys Asn Ala Leu Lys Lys Met Thr Arg Gly  
 1                      5                      10                      15  
 Arg Gln Ser Ser  
                     20

<210> 496  
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<212> PRT  
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<220>  
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<400> 496  
Arg Gln Ser Ser  
1

<210> 497  
<211> 20  
<212> PRT  
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<220>  
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<400> 497  
Cys Thr Leu His Leu Tyr Gln His Gln Asp Pro Asp Pro Lys Lys Ala  
1 5 10 15  
Ser Arg Asn Val  
20

<210> 498  
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<220>  
<223> Synthetic polymer

<400> 498  
Ser Arg Asn Val  
1

<210> 499  
<211> 20  
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<220>  
<223> Synthetic polymer

<400> 499  
Arg Asp His Pro Ser Thr Ala Asn Thr Val Asp Arg Thr Asn His Gln  
1 5 10 15  
Val Arg Ser Leu  
20

<210> 500  
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<220>  
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<400> 500

Val Arg Ser Leu

1

<210> 501

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 501

Ala Arg Glu Arg Val Thr Ala Cys Thr Pro Ser Asp Gly Pro Gly Gly

1

5

10

15

Gly Ala Ala Ala

20

<210> 502

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 502

Gly Ala Ala Ala

1

<210> 503

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 503

Arg Asn Thr Val Gln Asp Pro Ala Tyr Leu Arg Asp Ile Asp Gly Met

1

5

10

15

Asn Lys Pro Val

20

<210> 504

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 504

Asn Lys Pro Val

1

<210> 505

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 505

Ser Ile Ala Lys Asp Val Ala Leu Ala Cys Lys Thr Ser Glu Thr Val  
1 5 10 15  
Pro Arg Pro Ala  
20

<210> 506

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 506

Pro Arg Pro Ala  
1

<210> 507

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 507

Thr Val Asp Arg Thr Asn His Gln Leu Glu Asn Leu Glu Ala Glu Thr  
1 5 10 15  
Ala Pro Leu Pro  
20

<210> 508

<211> 4

<212> PRT

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<220>

<223> Synthetic polymer

<400> 508

Ala Pro Leu Pro  
1

<210> 509

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 509

Val Asp Asp Ser Asp Lys Thr Asn Gly Ser Lys Val Asp Val Ile Gln

1 5 10 15  
Val Arg Pro Leu  
20

<210> 510  
<211> 4  
<212> PRT  
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<220>  
<223> Synthetic polymer

<400> 510  
Val Arg Pro Leu  
1

<210> 511  
<211> 20  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic polymer

<400> 511  
His Glu Ala Glu Thr Pro Gly Lys Thr Lys Gly Leu Ile Pro Ser Gln  
1 5 10 15  
Asp Pro Arg Met  
20

<210> 512  
<211> 4  
<212> PRT  
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<220>  
<223> Synthetic polymer

<400> 512  
Asp Pro Arg Met  
1

<210> 513  
<211> 20  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic polymer

<400> 513  
Cys Ser Ile Ser Lys Ile Ser Glu His Val Val Leu Thr Ser Val Thr  
1 5 10 15  
Thr Val Leu Pro  
20

<210> 514  
<211> 4



<212> PRT  
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<220>  
<223> Synthetic polymer

<400> 514  
Thr Val Leu Pro  
1

<210> 515  
<211> 20  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic polymer

<400> 515  
Val Leu Thr Ser Ile Ser Thr Leu Pro Ala Ala Asn Gly Ala Gly Pro  
1 5 10 15  
Leu Gln Asn Trp  
20

<210> 516  
<211> 4  
<212> PRT  
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<220>  
<223> Synthetic polymer

<400> 516  
Leu Gln Asn Trp  
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<210> 517  
<211> 20  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic polymer

<400> 517  
Ser Phe Val Leu Ser His Arg Ser Ser Ser Gln Arg Ser Cys Ser Gln  
1 5 10 15  
Pro Ser Thr Ala  
20

<210> 518  
<211> 4  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic polymer

<400> 518

Pro Ser Thr Ala

1

<210> 519

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 519

Ser Glu Asp Met Thr Leu Asn Ile Leu Pro Glu Phe Lys Gln Asn Gly

1

5

10

15

Asp Thr Ser Leu

20

<210> 520

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 520

Asp Thr Ser Leu

1

<210> 521

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 521

Gly Ser Ser Val Thr Arg Ser Arg Leu Met Ser Lys Glu Ser Gly Ser

1

5

10

15

Ser Met Ile Gly

20

<210> 522

<211> 4

<212> PRT

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Ser Met Ile Gly

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Pro Leu Asn Ala Thr Ala Ala Pro Lys Pro Ser Glu Pro Gln Ser Arg  
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Glu Leu Ser Gln  
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Glu Leu Ser Gln  
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Asp Phe Arg Arg Thr Glu Ser Thr Pro Ala Gly Ser Glu Asn Thr Lys  
1 5 10 15  
Asp Ile Arg Leu  
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Asp Ile Arg Leu  
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Cys Arg Trp Ala Ala Thr Pro Gln Asp Ser Ser Cys Ser Thr Pro Arg

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Ala Asp Arg Leu			
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 Ala Asp Arg Leu  
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 Phe Ile Gln His Asn Leu Gln Thr Leu Lys Ser Lys Ile Phe Asp Asn  
 1 5 10 15  
 Glu Ser Ala Ala  
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 Glu Ser Ala Ala  
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 Glu Pro Gly Pro Ser Glu Ser Leu Thr Ala Ser Ser Pro Leu Lys Leu  
 1 5 10 15  
 Asn Glu Leu Asn  
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Asn Glu Leu Asn  
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Glu Glu Val Ser Asp Gln Thr Thr Asn Asn Gly Gly Glu Leu Met Leu  
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Glu Ser Thr Phe  
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Glu Ser Thr Phe  
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Arg Pro Met Glu Ser Asn Pro Asp Thr Glu Gly Cys Gln Gly Glu Thr  
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Glu Asp Val Leu  
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Glu Asp Val Leu

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Glu Ala Ser Gly Pro Glu Arg Pro Pro Ala Leu Leu Gln Glu Glu Trp

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Glu Thr Val Met

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Glu Thr Val Met

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Pro Val Thr Ser Ile Leu Pro Met Asp Val Ser Gln Asn Pro Leu Ala

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Ser Gly Arg Ile

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Ser Gly Arg Ile

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Asn Leu Ala Thr  
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Asp Thr Val Thr Glu Val Val Val Pro Phe Asn Gln Ile Pro Gly Asn  
1 5 10 15  
Ser Leu Lys Asn  
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Ser Leu Lys Asn  
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Arg Ala Phe Gly Glu Glu Glu Phe Leu Ser Ser Cys Pro Arg Gly Asn

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Ala Pro Arg Glu  
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Ala Val Ala Pro Arg Ala Lys Ala His Lys Ser Gln Asp Ser Leu Cys  
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Val Thr Leu Ala  
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Val Thr Met Ser  
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Cys Ser Leu Cys  
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Glu Ser Ser Leu  
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Glu Ser Ser Leu

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Pro Ser Ala Trp Glu Ala Ser Ser Leu Arg Ser Ser Arg His Ser Gly

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Leu Ser His Phe

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Leu Ser His Phe

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Gln Asp Ala Thr Gln Thr Ser Cys Ser Thr Gln Ser Asp Ala Ser Lys

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Gln Ala Asp Leu

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Gln Ala Asp Leu

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Ser Thr Ser Leu Pro Cys Gln Cys Ser Ser Thr Leu Met Trp Ser Asp  
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His Leu Glu Arg  
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His Leu Glu Arg  
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Gly Ser Ser Leu Gln Val Thr Phe Pro Ser Glu Thr Leu Asn Leu Ser  
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Glu Lys Cys Ile  
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Glu Lys Cys Ile  
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Leu Pro Leu Thr Leu Ala Ser Phe Lys Leu Leu Arg Glu Pro Cys Ser

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Val Gln Leu Ser			
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 Val Gln Leu Ser  
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 Val Gln Leu Ser  
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 Val Gln Leu Ser  
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 Ser Ala Ser Thr  
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Ser Ala Ser Thr  
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Lys Leu Leu Thr  
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Lys Leu Leu Thr  
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Lys His Ser Arg Lys Ser Ser Ser Tyr Ser Ser Ser Ser Thr Thr Val  
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Lys Thr Ser Tyr  
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Lys Thr Ser Tyr

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Pro Phe Leu Tyr Phe Leu Met Ser Lys Thr Arg Asn His Ser Thr Ala

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10

15

Tyr Leu Thr Lys

20

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Tyr Leu Thr Lys

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Ser Lys Ala Ser Ala Glu Gly Gly Ser Arg Gly Met Gly Thr His Ser

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Ser Leu Leu Gln

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Ser Leu Leu Gln

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Gly Ser Ser Gly Leu Ala Ala Arg Gly Leu Cys Val Leu Gly Glu Asp  
1 5 10 15  
Asn Ala Pro Leu  
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Asn Ala Pro Leu  
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Arg Pro Ser Asp Ser His Ser Leu Ser Ser Phe Thr Gln Cys Pro Gln  
1 5 10 15  
Asp Ser Ala Leu  
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Asp Ser Ala Leu  
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Ser Cys Ala Ala Ser Pro Gln Thr Gly Pro Leu Asn Arg Ala Leu Ser

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Val Ser Pro Ala  
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Val Cys Arg Gly Ile Trp Gln Cys Leu Ser Pro Gln Lys Arg Glu Lys  
1 5 10 15  
Asp Arg Thr Lys  
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Asp Arg Thr Lys  
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Gly Asp Asp Glu Ala Ser Ala Thr Val Ser Lys Thr Glu Thr Ser Gln  
1 5 10 15  
Val Ala Pro Ala  
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Val Ala Pro Ala

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Asn Ser Thr Lys Ala Ser His Leu Glu Gln Ser Gln Gly Thr Cys Arg  
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Thr Ser Ile Ile  
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Thr Ser Ile Ile  
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Phe Asn Lys Asp Phe Gln Asn Ala Phe Lys Lys Ile Ile Lys Cys Lys  
1 5 10 15

Phe Cys Arg Gln  
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<210> 594

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Phe Cys Arg Gln  
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<400> 595

Met Ser Asn Glu Asp Phe Lys Gln Ala Phe His Lys Leu Ile Arg Phe  
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Lys Cys Thr Ser  
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Lys Cys Thr Ser  
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<210> 597

<211> 20

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<400> 597

Val Phe Asn Glu Glu Phe Arg Gln Ala Phe Gln Lys Ile Val Pro Phe  
1 5 10 15  
Arg Lys Ala Ser  
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Arg Lys Ala Ser  
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<211> 20

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<400> 599

Ser Phe Asn Glu Asp Phe Lys Leu Ala Phe Lys Lys Leu Ile Arg Cys

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Arg Glu His Thr  
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Tyr Thr Ile Phe Asn Glu Asp Phe Lys Lys Ala Phe Gln Lys Leu Val  
1 5 10 15  
Arg Cys Arg Cys  
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His Ser Glu Glu Ala Ser Lys Asp Asn Ser Asp Gly Val Asn Glu Lys  
1 5 10 15  
Val Ser Cys Val  
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Val Ser Cys Val  
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1 5 10 15  
Val Ser Tyr Val  
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1 5 10 15  
Ile Ser Ser Val  
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Ile Ser Ser Val

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Glu Ser Gln Cys His Pro Pro Ala Thr Ser Pro Leu Val Ala Ala Gln

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10

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Pro Ser Asp Thr

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Pro Ser Asp Thr

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<400> 611

Tyr Thr Ala Phe Asn Lys Asn Tyr Asn Ser Ala Phe Lys Asn Phe Phe

1

5

10

15

Ser Arg Gln His

20

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<400> 612

Ser Arg Gln His

1

<210> 613

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<400> 613

Phe Asn Ile Asp Pro Ala Glu Pro Glu Leu Arg Pro His Pro Leu Gly  
1 5 10 15  
Ile Pro Thr Asn  
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<400> 614

Ile Pro Thr Asn  
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<210> 615

<211> 20

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<400> 615

His Asn Trp Leu Ala Asp Lys Met Leu Thr Thr Val Glu Lys Lys Val  
1 5 10 15  
Met Ile His Asp  
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<400> 616

Met Ile His Asp  
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<400> 617

Pro Ile His Ser Arg Thr Asn Leu Met Asp Thr Glu Leu Met Asp Ala

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Asp Ser Asp Phe			
20			

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 1 5 10 15  
 Ile Thr Thr Leu  
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 Leu Asn Glu Thr Thr Glu Thr Gln Arg Thr Leu Leu Asn Gly Asp Leu  
 1 5 10 15  
 Gln Thr Ser Ile  
 20

<210> 622  
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<400> 622  
Gln Thr Ser Ile  
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<400> 623  
Leu Leu Pro Gln Glu Ala Ser Thr Gly Glu Lys Ser Ser Thr Met Arg  
1 5 10 15  
Ile Ser Tyr Leu  
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<400> 624  
Ile Ser Tyr Leu  
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<400> 625  
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1 5 10 15  
Thr Thr Thr Phe  
20

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<400> 626

Thr Thr Thr Phe  
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<220>  
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<400> 627  
Glu Ala Thr Pro Pro Ala His Arg Ala Ala Ala Asn Gly Leu Met Gln  
1 5 10 15  
Thr Ser Lys Leu  
20

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Thr Ser Lys Leu  
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Thr Gly Ser Pro Gly Ala Pro Thr Ala Ala Arg Thr Leu Val Ser Glu  
1 5 10 15  
Pro Ala Ala Asp  
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<400> 630  
Pro Ala Ala Asp  
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His	Val	Glu	Ile												
			20												

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His	Val	Glu	Ile
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<400> 633

Ser	Arg	Ser	Asp	Ser	Lys	Thr	Met	Thr	Glu	Ser	Phe	Ser	Phe	Ser	Ser
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Asn	Val	Leu	Ser												
			20												

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<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 634

Asn	Val	Leu	Ser
1			

<210> 635

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 635

Ala	Ser	Arg	Val	Gln	Ala	Ile	Leu	Val	Pro	Gln	Pro	Pro	Glu	Gln	Leu
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----



<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic polymer

<400> 640  
Phe Ser Gln Ser  
1

<210> 641  
<211> 20  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic polymer

<400> 641  
Phe Gly Lys Ile Phe Gln Lys Asp Ser Ser Arg Cys Lys Leu Phe Leu  
1 5 10 15  
Glu Leu Ser Ser  
20

<210> 642  
<211> 4  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic polymer

<400> 642  
Glu Leu Ser Ser  
1

<210> 643  
<211> 20  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic polymer

<400> 643  
Lys Val Leu Arg Thr Asp Ser Ser Thr Thr Asn Leu Phe Ser Glu Glu  
1 5 10 15  
Val Glu Thr Asp  
20

<210> 644  
<211> 4  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic polymer

<400> 644

Val Glu Thr Asp

1

<210> 645

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 645

Val Thr Gly Gln Val Leu Lys Asn Ser Ser Ala Thr Met Asn Leu Phe

1

5

10

15

Ser Glu His Ile

20

<210> 646

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 646

Ser Glu His Ile

1

<210> 647

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 647

Leu Ile Leu Ser Gly Asp Val Leu Lys Ala Ser Ser Ser Thr Ile Ser

1

5

10

15

Leu Phe Leu Glu

20

<210> 648

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 648

Leu Phe Leu Glu

1

<210> 649

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 649

Leu Val Leu Ala Pro Ala Ala Pro Ala Arg Pro Ala Pro Glu Gly Pro  
1 5 10 15  
Arg Ala Pro Ala  
20

<210> 650

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 650

Arg Ala Pro Ala  
1

<210> 651

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 651

Thr Arg Val Ser Pro Gly Ala Arg Arg Ser Ser Ser Phe Gln Ala Glu  
1 5 10 15  
Val Ser Leu Val  
20

<210> 652

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 652

Val Ser Leu Val  
1

<210> 653

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 653

Leu Gln Phe His Arg Gly Ser Arg Ala Gln Ser Phe Leu Gln Thr Glu

1                      5                      10                      15  
 Thr Ser Val Ile  
                     20

<210> 654  
 <211> 4  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

<400> 654  
 Thr Ser Val Ile  
                     1

<210> 655  
 <211> 20  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

<400> 655  
 Val Gln Leu Trp Ala Ala Trp Asp Pro Glu Ala Pro Leu Glu Gly Gly  
                     1                      5                      10                      15  
 Cys Ser Arg Gly  
                     20

<210> 656  
 <211> 4  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

<400> 656  
 Cys Ser Arg Gly  
                     1

<210> 657  
 <211> 20  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

<400> 657  
 Gly Met Trp Lys Asp Ser Pro Lys Ser Ser Lys Ser Ile Lys Phe Ile  
                     1                      5                      10                      15  
 Pro Val Ser Thr  
                     20

<210> 658  
 <211> 4



<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic polymer

<400> 658  
Pro Val Ser Thr  
1

<210> 659  
<211> 20  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic polymer

<400> 659  
Glu Ser Pro Arg Asp Leu Glu Leu Ala Asp Gly Glu Gly Thr Ala Glu  
1 5 10 15  
Thr Ile Ile Phe  
20

<210> 660  
<211> 4  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic polymer

<400> 660  
Thr Ile Ile Phe  
1

<210> 661  
<211> 20  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic polymer

<400> 661  
Gly Pro Gln Asp Glu Ser Cys Thr Thr Ala Ser Ser Ser Leu Ala Lys  
1 5 10 15  
Asp Thr Ser Ser  
20

<210> 662  
<211> 4  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic polymer

<400> 662

Asp Thr Ser Ser

1

<210> 663

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 663

Gln Phe Cys Phe Ala Cys Arg Thr Arg Lys Thr Leu Phe Pro Asn Leu

1

5

10

15

Val Val Met Pro

20

<210> 664

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 664

Val Val Met Pro

1

<210> 665

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 665

Gly Ala Cys Trp Leu Pro Arg Ile Ser Ser Met Ser Ser Leu Thr Gly

1

5

10

15

Ile Met Arg Cys

20

<210> 666

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 666

Ile Met Arg Cys

1

<210> 667

<211> 87

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 667

Arg	Asp	Met	Ala	Glu	Ala	His	Lys	Glu	Ala	Met	Ser	Arg	Lys	Leu	Gly
1				5				10					15		
Gln	Ser	Glu	Ser	Gln	Gly	Pro	Pro	Arg	Ala	Phe	Ala	Lys	Val	Asn	Ser
			20					25					30		
Ile	Ser	Pro	Gly	Ser	Pro	Ser	Ile	Ala	Gly	Leu	Gln	Val	Asp	Asp	Glu
		35					40					45			
Ile	Val	Glu	Phe	Gly	Ser	Val	Asn	Thr	Gln	Asn	Phe	Gln	Ser	Leu	His
	50					55					60				
Asn	Ile	Gly	Ser	Val	Val	Gln	His	Ser	Glu	Gly	Ala	Leu	Ala	Pro	Thr
65					70					75					80
Ile	Leu	Leu	Ser	Val	Ser	Met									
					85										

<210> 668

<211> 93

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 668

Leu	Arg	Lys	Glu	Pro	Glu	Ile	Ile	Thr	Val	Thr	Leu	Lys	Lys	Gln	Asn
1				5				10						15	
Gly	Met	Gly	Leu	Ser	Ile	Val	Ala	Ala	Lys	Gly	Ala	Gly	Gln	Asp	Lys
			20					25					30		
Leu	Gly	Ile	Tyr	Val	Lys	Ser	Val	Val	Lys	Gly	Gly	Ala	Ala	Asp	Val
		35					40					45			
Asp	Gly	Arg	Leu	Ala	Ala	Gly	Asp	Gln	Leu	Leu	Ser	Val	Asp	Gly	Arg
	50					55					60				
Ser	Leu	Val	Gly	Leu	Ser	Gln	Glu	Arg	Ala	Ala	Glu	Leu	Met	Thr	Arg
65					70					75					80
Thr	Ser	Ser	Val	Val	Thr	Leu	Glu	Val	Ala	Lys	Gln	Gly			
					85					90					

<210> 669

<211> 105

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 669

Leu	Ile	Arg	Pro	Ser	Val	Ile	Ser	Ile	Ile	Gly	Leu	Tyr	Lys	Glu	Lys
1				5				10						15	
Gly	Lys	Gly	Leu	Gly	Phe	Ser	Ile	Ala	Gly	Gly	Arg	Asp	Cys	Ile	Arg
			20					25					30		
Gly	Gln	Met	Gly	Ile	Phe	Val	Lys	Thr	Ile	Phe	Pro	Asn	Gly	Ser	Ala
		35					40					45			
Ala	Glu	Asp	Gly	Arg	Leu	Lys	Glu	Gly	Asp	Glu	Ile	Leu	Asp	Val	Asn
	50					55					60				
Gly	Ile	Pro	Ile	Lys	Gly	Leu	Thr	Phe	Gln	Glu	Ala	Ile	His	Thr	Phe
65					70					75					80
Lys	Gln	Ile	Arg	Ser	Gly	Leu	Phe	Val	Leu	Thr	Val	Arg	Thr	Lys	Leu

85 90 95  
Val Ser Pro Ser Leu Thr Asn Ser Ser  
100 105

<210> 670  
<211> 132  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic polymer

<400> 670  
Gly Ile Ser Ser Leu Gly Arg Lys Thr Pro Gly Pro Lys Asp Arg Ile  
1 5 10 15  
Val Met Glu Val Thr Leu Asn Lys Glu Pro Arg Val Gly Leu Gly Ile  
20 25 30  
Gly Ala Cys Cys Leu Ala Leu Glu Asn Ser Pro Pro Gly Ile Tyr Ile  
35 40 45  
His Ser Leu Ala Pro Gly Ser Val Ala Lys Met Glu Ser Asn Leu Ser  
50 55 60  
Arg Gly Asp Gln Ile Leu Glu Val Asn Ser Val Asn Val Arg His Ala  
65 70 75 80  
Ala Leu Ser Lys Val His Ala Ile Leu Ser Lys Cys Pro Pro Gly Pro  
85 90 95  
Val Arg Leu Val Ile Gly Arg His Pro Asn Pro Lys Val Ser Glu Gln  
100 105 110  
Glu Met Asp Glu Val Ile Ala Arg Ser Thr Tyr Gln Glu Ser Lys Glu  
115 120 125  
Ala Asn Ser Ser  
130

<210> 671  
<211> 105  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic polymer

<400> 671  
Gln Ser Glu Asn Glu Glu Asp Val Cys Phe Ile Val Leu Asn Arg Lys  
1 5 10 15  
Glu Gly Ser Gly Leu Gly Phe Ser Val Ala Gly Gly Thr Asp Val Glu  
20 25 30  
Pro Lys Ser Ile Thr Val His Arg Val Phe Ser Gln Gly Ala Ala Ser  
35 40 45  
Gln Glu Gly Thr Met Asn Arg Gly Asp Phe Leu Leu Ser Val Asn Gly  
50 55 60  
Ala Ser Leu Ala Gly Leu Ala His Gly Asn Val Leu Lys Val Leu His  
65 70 75 80  
Gln Ala Gln Leu His Lys Asp Ala Leu Val Val Ile Lys Lys Gly Met  
85 90 95  
Asp Gln Pro Arg Pro Ser Asn Ser Ser  
100 105

<210> 672  
<211> 101  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 672

Leu	Gly	Arg	Ser	Val	Ala	Val	His	Asp	Ala	Leu	Cys	Val	Glu	Val	Leu
1				5					10					15	
Lys	Thr	Ser	Ala	Gly	Leu	Gly	Leu	Ser	Leu	Asp	Gly	Gly	Lys	Ser	Ser
			20					25					30		
Val	Thr	Gly	Asp	Gly	Pro	Leu	Val	Ile	Lys	Arg	Val	Tyr	Lys	Gly	Gly
		35					40					45			
Ala	Ala	Glu	Gln	Ala	Gly	Ile	Ile	Glu	Ala	Gly	Asp	Glu	Ile	Leu	Ala
	50					55					60				
Ile	Asn	Gly	Lys	Pro	Leu	Val	Gly	Leu	Met	His	Phe	Asp	Ala	Trp	Asn
65					70					75					80
Ile	Met	Lys	Ser	Val	Pro	Glu	Gly	Pro	Val	Gln	Leu	Leu	Ile	Arg	Lys
				85					90					95	
His	Arg	Asn	Ser	Ser											
			100												

<210> 673

<211> 74

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 673

Gln	Thr	Val	Ile	Leu	Pro	Gly	Pro	Ala	Ala	Trp	Gly	Phe	Arg	Leu	Ser
1				5					10					15	
Gly	Gly	Ile	Asp	Phe	Asn	Gln	Pro	Leu	Val	Ile	Thr	Arg	Ile	Thr	Pro
			20					25					30		
Gly	Ser	Lys	Ala	Ala	Ala	Ala	Asn	Leu	Cys	Pro	Gly	Asp	Val	Ile	Leu
		35					40					45			
Ala	Ile	Asp	Gly	Phe	Gly	Thr	Glu	Ser	Met	Thr	His	Ala	Asp	Gly	Gln
	50					55					60				
Asp	Arg	Ile	Lys	Ala	Ala	Glu	Phe	Ile	Val						
65					70										

<210> 674

<211> 85

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 674

Ile	Leu	Val	Glu	Val	Gln	Leu	Ser	Gly	Gly	Ala	Pro	Trp	Gly	Phe	Thr
1				5					10					15	
Leu	Lys	Gly	Gly	Arg	Glu	His	Gly	Glu	Pro	Leu	Val	Ile	Thr	Lys	Ile
			20					25					30		
Glu	Glu	Gly	Ser	Lys	Ala	Ala	Ala	Val	Asp	Lys	Leu	Leu	Ala	Gly	Asp
		35					40					45			
Glu	Ile	Val	Gly	Ile	Asn	Asp	Ile	Gly	Leu	Ser	Gly	Phe	Arg	Gln	Glu
	50					55					60				
Ala	Ile	Cys	Leu	Val	Lys	Gly	Ser	His	Lys	Thr	Leu	Lys	Leu	Val	Val
65					70					75					80
Lys	Arg	Asn	Ser	Ser											
				85											

<210> 675  
 <211> 104  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

<400> 675  
 Arg Glu Lys Pro Leu Phe Thr Arg Asp Ala Ser Gln Leu Lys Gly Thr  
 1 5 10 15  
 Phe Leu Ser Thr Leu Lys Lys Ser Asn Met Gly Phe Gly Phe Thr  
 20 25 30  
 Ile Ile Gly Gly Asp Glu Pro Asp Glu Phe Leu Gln Val Lys Ser Val  
 35 40 45  
 Ile Pro Asp Gly Pro Ala Ala Gln Asp Gly Lys Met Glu Thr Gly Asp  
 50 55 60  
 Val Ile Val Tyr Ile Asn Glu Val Cys Val Leu Gly His Thr His Ala  
 65 70 75 80  
 Asp Val Val Lys Leu Phe Gln Ser Val Pro Ile Gly Gln Ser Val Asn  
 85 90 95  
 Leu Val Leu Cys Arg Gly Tyr Pro  
 100

<210> 676  
 <211> 91  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

<400> 676  
 Leu Ser Gly Ala Thr Gln Ala Glu Leu Met Thr Leu Thr Ile Val Lys  
 1 5 10 15  
 Gly Ala Gln Gly Phe Gly Phe Thr Ile Ala Asp Ser Pro Thr Gly Gln  
 20 25 30  
 Arg Val Lys Gln Ile Leu Asp Ile Gln Gly Cys Pro Gly Leu Cys Glu  
 35 40 45  
 Gly Asp Leu Ile Val Glu Ile Asn Gln Gln Asn Val Gln Asn Leu Ser  
 50 55 60  
 His Thr Glu Val Val Asp Ile Leu Lys Asp Cys Pro Ile Gly Ser Glu  
 65 70 75 80  
 Thr Ser Leu Ile Ile His Arg Gly Gly Phe Phe  
 85 90

<210> 677  
 <211> 93  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

<400> 677  
 His Tyr Lys Glu Leu Asp Val His Leu Arg Arg Met Glu Ser Gly Phe  
 1 5 10 15  
 Gly Phe Arg Ile Leu Gly Gly Asp Glu Pro Gly Gln Pro Ile Leu Ile  
 20 25 30

Gly	Ala	Val	Ile	Ala	Met	Gly	Ser	Ala	Asp	Arg	Asp	Gly	Arg	Leu	His
		35					40					45			
Pro	Gly	Asp	Glu	Leu	Val	Tyr	Val	Asp	Gly	Ile	Pro	Val	Ala	Gly	Lys
	50					55					60				
Thr	His	Arg	Tyr	Val	Ile	Asp	Leu	Met	His	His	Ala	Ala	Arg	Asn	Gly
65					70					75					80
Gln	Val	Asn	Leu	Thr	Val	Arg	Arg	Lys	Val	Leu	Cys	Gly			
				85					90						

<210> 678  
 <211> 106  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

Glu	Gly	Arg	Gly	Ile	Ser	Ser	His	Ser	Leu	Gln	Thr	Ser	Asp	Ala	Val
1				5					10					15	
Ile	His	Arg	Lys	Glu	Asn	Glu	Gly	Phe	Gly	Phe	Val	Ile	Ile	Ser	Ser
			20					25					30		
Leu	Asn	Arg	Pro	Glu	Ser	Gly	Ser	Thr	Ile	Thr	Val	Pro	His	Lys	Ile
			35				40					45			
Gly	Arg	Ile	Ile	Asp	Gly	Ser	Pro	Ala	Asp	Arg	Cys	Ala	Lys	Leu	Lys
	50				55					60					
Val	Gly	Asp	Arg	Ile	Leu	Ala	Val	Asn	Gly	Gln	Ser	Ile	Ile	Asn	Met
65					70					75					80
Pro	His	Ala	Asp	Ile	Val	Lys	Leu	Ile	Lys	Asp	Ala	Gly	Leu	Ser	Val
				85					90					95	
Thr	Leu	Arg	Ile	Ile	Pro	Gln	Glu	Glu	Leu						
			100					105							

<210> 679  
 <211> 98  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

Leu	Ser	Asp	Tyr	Arg	Gln	Pro	Gln	Asp	Phe	Asp	Tyr	Phe	Thr	Val	Asp
1				5					10					15	
Met	Glu	Lys	Gly	Ala	Lys	Gly	Phe	Gly	Phe	Ser	Ile	Arg	Gly	Gly	Arg
			20					25					30		
Glu	Tyr	Lys	Met	Asp	Leu	Tyr	Val	Leu	Arg	Leu	Ala	Glu	Asp	Gly	Pro
			35				40					45			
Ala	Ile	Arg	Asn	Gly	Arg	Met	Arg	Val	Gly	Asp	Gln	Ile	Ile	Glu	Ile
	50					55					60				
Asn	Gly	Glu	Ser	Thr	Arg	Asp	Met	Thr	His	Ala	Arg	Ala	Ile	Glu	Leu
65					70					75					80
Ile	Lys	Ser	Gly	Gly	Arg	Arg	Val	Arg	Leu	Leu	Leu	Lys	Arg	Gly	Thr
				85					90					95	
Gly	Gln														

<210> 680  
 <211> 90  
 <212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 680

His	Glu	Ser	Val	Ile	Gly	Arg	Asn	Pro	Glu	Gly	Gln	Leu	Gly	Phe	Glu
1				5					10					15	
Leu	Lys	Gly	Gly	Ala	Glu	Asn	Gly	Gln	Phe	Pro	Tyr	Leu	Gly	Glu	Val
			20					25					30		
Lys	Pro	Gly	Lys	Val	Ala	Tyr	Glu	Ser	Gly	Ser	Lys	Leu	Val	Ser	Glu
		35					40					45			
Glu	Leu	Leu	Leu	Glu	Val	Asn	Glu	Thr	Pro	Val	Ala	Gly	Leu	Thr	Ile
	50					55					60				
Arg	Asp	Val	Leu	Ala	Val	Ile	Lys	His	Cys	Lys	Asp	Pro	Leu	Arg	Leu
65					70					75					80
Lys	Cys	Val	Lys	Gln	Gly	Gly	Ile	His	Arg						
				85					90						

<210> 681

<211> 126

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 681

Asn	Leu	Met	Phe	Arg	Lys	Phe	Ser	Leu	Glu	Arg	Pro	Phe	Arg	Pro	Ser
1				5					10					15	
Val	Thr	Ser	Val	Gly	His	Val	Arg	Gly	Pro	Gly	Pro	Ser	Val	Gln	His
			20					25					30		
Thr	Thr	Leu	Asn	Gly	Asp	Ser	Leu	Thr	Ser	Gln	Leu	Thr	Leu	Leu	Gly
		35					40					45			
Gly	Asn	Ala	Arg	Gly	Ser	Phe	Val	His	Ser	Val	Lys	Pro	Gly	Ser	Leu
	50					55					60				
Ala	Glu	Lys	Ala	Gly	Leu	Arg	Glu	Gly	His	Gln	Leu	Leu	Leu	Leu	Glu
65					70					75					80
Gly	Cys	Ile	Arg	Gly	Glu	Arg	Gln	Ser	Val	Pro	Leu	Asp	Thr	Cys	Thr
				85					90					95	
Lys	Glu	Glu	Ala	His	Trp	Thr	Ile	Gln	Arg	Cys	Ser	Gly	Pro	Val	Thr
			100					105					110		
Leu	His	Tyr	Lys	Val	Asn	His	Glu	Gly	Tyr	Arg	Lys	Leu	Val		
		115					120					125			

<210> 682

<211> 100

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 682

Ile	Leu	Ser	Gln	Val	Thr	Met	Leu	Ala	Phe	Gln	Gly	Asp	Ala	Leu	Leu
1				5					10					15	
Glu	Gln	Ile	Ser	Val	Ile	Gly	Gly	Asn	Leu	Thr	Gly	Ile	Phe	Ile	His
			20					25					30		
Arg	Val	Thr	Pro	Gly	Ser	Ala	Ala	Asp	Gln	Met	Ala	Leu	Arg	Pro	Gly
		35					40					45			
Thr	Gln	Ile	Val	Met	Val	Asp	Tyr	Glu	Ala	Ser	Glu	Pro	Leu	Phe	Lys



50		55		60
Ala Val Leu Glu Asp Thr	Thr Leu Glu Glu	Ala Val Gly Leu Leu Arg		
65	70	75	80	
Arg Val Asp Gly Phe Cys Cys Leu Ser Val	Lys Val Asn Thr Asp Gly			
	85	90	95	
Tyr Lys Arg Leu				
	100			

<210> 683  
 <211> 90  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

<400> 683

Thr Arg Val Arg Leu Val Gln Phe Gln Lys Asn Thr Asp Glu Pro Met	
1	5 10 15
Gly Ile Thr Leu Lys Met Asn Glu Leu Asn His Cys Ile Val Ala Arg	
	20 25 30
Ile Met His Gly Gly Met Ile His Arg Gln Gly Thr Leu His Val Gly	
	35 40 45
Asp Glu Ile Arg Glu Ile Asn Gly Ile Ser Val Ala Asn Gln Thr Val	
	50 55 60
Glu Gln Leu Gln Lys Met Leu Arg Glu Met Arg Gly Ser Ile Thr Phe	
65	70 75 80
Lys Ile Val Pro Ser Tyr Arg Thr Gln Ser	
	85 90

<210> 684  
 <211> 88  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

<400> 684

Leu Glu Gln Lys Ala Val Leu Glu Gln Val Gln Leu Asp Ser Pro Leu	
1	5 10 15
Gly Leu Glu Ile His Thr Thr Ser Asn Cys Gln His Phe Val Ser Gln	
	20 25 30
Val Asp Thr Gln Val Pro Thr Asp Ser Arg Leu Gln Ile Gln Pro Gly	
	35 40 45
Asp Glu Val Val Gln Ile Asn Glu Gln Val Val Val Gly Trp Pro Arg	
	50 55 60
Lys Asn Met Val Arg Glu Leu Leu Arg Glu Pro Ala Gly Leu Ser Leu	
65	70 75 80
Val Leu Lys Lys Ile Pro Ile Pro	
	85

<210> 685  
 <211> 92  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

<400> 685

Gln	Arg	Lys	Leu	Val	Thr	Val	Glu	Lys	Gln	Asp	Asn	Glu	Thr	Phe	Gly
1				5					10					15	
Phe	Glu	Ile	Gln	Ser	Tyr	Arg	Pro	Gln	Asn	Gln	Asn	Ala	Cys	Ser	Ser
			20					25					30		
Glu	Met	Phe	Thr	Leu	Ile	Cys	Lys	Ile	Gln	Glu	Asp	Ser	Pro	Ala	His
		35					40					45			
Cys	Ala	Gly	Leu	Gln	Ala	Gly	Asp	Val	Leu	Ala	Asn	Ile	Asn	Gly	Val
	50					55					60				
Ser	Thr	Glu	Gly	Phe	Thr	Tyr	Lys	Gln	Val	Val	Asp	Leu	Ile	Arg	Ser
65					70					75					80
Ser	Gly	Asn	Leu	Leu	Thr	Ile	Glu	Thr	Leu	Asn	Gly				
				85					90						

<210> 686

<211> 109

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 686

Arg	Cys	Leu	Ile	Gln	Thr	Lys	Gly	Gln	Arg	Ser	Met	Asp	Gly	Tyr	Pro
1				5				10						15	
Glu	Gln	Phe	Cys	Val	Arg	Ile	Glu	Lys	Asn	Pro	Gly	Leu	Gly	Phe	Ser
			20					25					30		
Ile	Ser	Gly	Gly	Ile	Ser	Gly	Gln	Gly	Asn	Pro	Phe	Lys	Pro	Ser	Asp
		35					40					45			
Lys	Gly	Ile	Phe	Val	Thr	Arg	Val	Gln	Pro	Asp	Gly	Pro	Ala	Ser	Asn
	50					55					60				
Leu	Leu	Gln	Pro	Gly	Asp	Lys	Ile	Leu	Gln	Ala	Asn	Gly	His	Ser	Phe
65					70				75						80
Val	His	Met	Glu	His	Glu	Lys	Ala	Val	Leu	Leu	Leu	Lys	Ser	Phe	Gln
				85				90						95	
Asn	Thr	Val	Asp	Leu	Val	Ile	Gln	Arg	Glu	Leu	Thr	Val			
			100					105							

<210> 687

<211> 101

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 687

Ile	Gln	Val	Asn	Gly	Thr	Asp	Ala	Asp	Tyr	Glu	Tyr	Glu	Glu	Ile	Thr
1				5					10					15	
Leu	Glu	Arg	Gly	Asn	Ser	Gly	Leu	Gly	Phe	Ser	Ile	Ala	Gly	Gly	Thr
			20					25					30		
Asp	Asn	Pro	His	Ile	Gly	Asp	Asp	Ser	Ser	Ile	Phe	Ile	Thr	Lys	Ile
		35					40					45			
Ile	Thr	Gly	Gly	Ala	Ala	Ala	Gln	Asp	Gly	Arg	Leu	Arg	Val	Asn	Asp
	50					55					60				
Cys	Ile	Leu	Gln	Val	Asn	Glu	Val	Asp	Val	Arg	Asp	Val	Thr	His	Ser
65					70				75						80
Lys	Ala	Val	Glu	Ala	Leu	Lys	Glu	Ala	Gly	Ser	Ile	Val	Arg	Leu	Tyr
				85					90					95	
Val	Lys	Arg	Arg	Asn											
			100												

<210> 688  
 <211> 95  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

<400> 688  
 Ile Gln Leu Ile Lys Gly Pro Lys Gly Leu Gly Phe Ser Ile Ala Gly  
 1 5 10 15  
 Gly Val Gly Asn Gln His Ile Pro Gly Asp Asn Ser Ile Tyr Val Thr  
 20 25 30  
 Lys Ile Ile Glu Gly Gly Ala Ala His Lys Asp Gly Lys Leu Gln Ile  
 35 40 45  
 Gly Asp Lys Leu Leu Ala Val Asn Asn Val Cys Leu Glu Glu Val Thr  
 50 55 60  
 His Glu Glu Ala Val Thr Ala Leu Lys Asn Thr Ser Asp Phe Val Tyr  
 65 70 75 80  
 Leu Lys Val Ala Lys Pro Thr Ser Met Tyr Met Asn Asp Gly Asn  
 85 90 95

<210> 689  
 <211> 85  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

<400> 689  
 Ile Leu His Arg Gly Ser Thr Gly Leu Gly Phe Asn Ile Val Gly Gly  
 1 5 10 15  
 Glu Asp Gly Glu Gly Ile Phe Ile Ser Phe Ile Leu Ala Gly Gly Pro  
 20 25 30  
 Ala Asp Leu Ser Gly Glu Leu Arg Lys Gly Asp Arg Ile Ile Ser Val  
 35 40 45  
 Asn Ser Val Asp Leu Arg Ala Ala Ser His Glu Gln Ala Ala Ala Ala  
 50 55 60  
 Leu Lys Asn Ala Gly Gln Ala Val Thr Ile Val Ala Gln Tyr Arg Pro  
 65 70 75 80  
 Glu Glu Tyr Ser Arg  
 85

<210> 690  
 <211> 101  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

<400> 690  
 Ile Ser Tyr Val Asn Gly Thr Glu Ile Glu Tyr Glu Phe Glu Glu Ile  
 1 5 10 15  
 Thr Leu Glu Arg Gly Asn Ser Gly Leu Gly Phe Ser Ile Ala Gly Gly  
 20 25 30  
 Thr Asp Asn Pro His Ile Gly Asp Asp Pro Gly Ile Phe Ile Thr Lys  
 35 40 45

Ile	Ile	Pro	Gly	Gly	Ala	Ala	Ala	Glu	Asp	Gly	Arg	Leu	Arg	Val	Asn
50					55					60					
Asp	Cys	Ile	Leu	Arg	Val	Asn	Glu	Val	Asp	Val	Ser	Glu	Val	Ser	His
65					70					75					80
Ser	Lys	Ala	Val	Glu	Ala	Leu	Lys	Glu	Ala	Gly	Ser	Ile	Val	Arg	Leu
				85					90					95	
Tyr	Val	Arg	Arg	Arg											
			100												

<210> 691  
 <211> 94  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

Ile	Ser	Val	Val	Glu	Ile	Lys	Leu	Phe	Lys	Gly	Pro	Lys	Gly	Leu	Gly
1				5					10					15	
Phe	Ser	Ile	Ala	Gly	Gly	Val	Gly	Asn	Gln	His	Ile	Pro	Gly	Asp	Asn
			20					25					30		
Ser	Ile	Tyr	Val	Thr	Lys	Ile	Ile	Asp	Gly	Gly	Ala	Ala	Gln	Lys	Asp
		35				40						45			
Gly	Arg	Leu	Gln	Val	Gly	Asp	Arg	Leu	Leu	Met	Val	Asn	Asn	Tyr	Ser
		50				55					60				
Leu	Glu	Glu	Val	Thr	His	Glu	Glu	Ala	Val	Ala	Ile	Leu	Lys	Asn	Thr
65					70					75					80
Ser	Glu	Val	Val	Tyr	Leu	Lys	Val	Gly	Asn	Pro	Thr	Thr	Ile		
				85					90						

<210> 692  
 <211> 95  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

Ile	Trp	Ala	Val	Ser	Leu	Glu	Gly	Glu	Pro	Arg	Lys	Val	Val	Leu	His
1				5					10					15	
Lys	Gly	Ser	Thr	Gly	Leu	Gly	Phe	Asn	Ile	Val	Gly	Gly	Glu	Asp	Gly
			20					25					30		
Glu	Gly	Ile	Phe	Val	Ser	Phe	Ile	Leu	Ala	Gly	Gly	Pro	Ala	Asp	Leu
		35					40					45			
Ser	Gly	Glu	Leu	Gln	Arg	Gly	Asp	Gln	Ile	Leu	Ser	Val	Asn	Gly	Ile
		50				55					60				
Asp	Leu	Arg	Gly	Ala	Ser	His	Glu	Gln	Ala	Ala	Ala	Ala	Leu	Lys	Gly
65					70					75					80
Ala	Gly	Gln	Thr	Val	Thr	Ile	Ile	Ala	Gln	Tyr	Gln	Pro	Glu	Asp	
				85					90					95	

<210> 693  
 <211> 102  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

<400> 693

Gly	Ile	Pro	Tyr	Val	Glu	Glu	Pro	Arg	His	Val	Lys	Val	Gln	Lys	Gly
1				5					10					15	
Ser	Glu	Pro	Leu	Gly	Ile	Ser	Ile	Val	Ser	Gly	Glu	Lys	Gly	Gly	Ile
			20					25					30		
Tyr	Val	Ser	Lys	Val	Thr	Val	Gly	Ser	Ile	Ala	His	Gln	Ala	Gly	Leu
			35				40					45			
Glu	Tyr	Gly	Asp	Gln	Leu	Leu	Glu	Phe	Asn	Gly	Ile	Asn	Leu	Arg	Ser
	50					55					60				
Ala	Thr	Glu	Gln	Gln	Ala	Arg	Leu	Ile	Ile	Gly	Gln	Gln	Cys	Asp	Thr
65					70					75					80
Ile	Thr	Ile	Leu	Ala	Gln	Tyr	Asn	Pro	His	Val	His	Gln	Leu	Arg	Asn
				85					90					95	
Ser	Ser	Glx	Leu	Thr	Asp										
			100												

<210> 694

<211> 103

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 694

Gly	Ile	Leu	Ala	Gly	Asp	Ala	Asn	Lys	Lys	Thr	Leu	Glu	Pro	Arg	Val
1				5					10					15	
Val	Phe	Ile	Lys	Lys	Ser	Gln	Leu	Glu	Leu	Gly	Val	His	Leu	Cys	Gly
			20					25					30		
Gly	Asn	Leu	His	Gly	Val	Phe	Val	Ala	Glu	Val	Glu	Asp	Asp	Ser	Pro
			35				40					45			
Ala	Lys	Gly	Pro	Asp	Gly	Leu	Val	Pro	Gly	Asp	Leu	Ile	Leu	Glu	Tyr
	50					55					60				
Gly	Ser	Leu	Asp	Val	Arg	Asn	Lys	Thr	Val	Glu	Glu	Val	Tyr	Val	Glu
65					70					75					80
Met	Leu	Lys	Pro	Arg	Asp	Gly	Val	Arg	Leu	Lys	Val	Gln	Tyr	Arg	Pro
				85					90					95	
Glu	Glu	Phe	Ile	Val	Thr	Asp									
			100												

<210> 695

<211> 141

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 695

Pro	Thr	Ser	Pro	Glu	Ile	Gln	Glu	Leu	Arg	Gln	Met	Leu	Gln	Ala	Pro
1				5					10					15	
His	Phe	Lys	Ala	Leu	Leu	Ser	Ala	His	Asp	Thr	Ile	Ala	Gln	Lys	Asp
			20					25					30		
Phe	Glu	Pro	Leu	Leu	Pro	Pro	Leu	Pro	Asp	Asn	Ile	Pro	Glu	Ser	Glu
			35				40					45			
Glu	Ala	Met	Arg	Ile	Val	Cys	Leu	Val	Lys	Asn	Gln	Gln	Pro	Leu	Gly
	50					55					60				
Ala	Thr	Ile	Lys	Arg	His	Glu	Met	Thr	Gly	Asp	Ile	Leu	Val	Ala	Arg
65					70					75					80
Ile	Ile	His	Gly	Gly	Leu	Ala	Glu	Arg	Ser	Gly	Leu	Leu	Tyr	Ala	Gly

				85					90					95			
Asp	Lys	Leu	Val	Glu	Val	Asn	Gly	Val	Ser	Val	Glu	Gly	Leu	Asp	Pro		
			100					105					110				
Glu	Gln	Val	Ile	His	Ile	Leu	Ala	Met	Ser	Arg	Gly	Thr	Ile	Met	Phe		
		115					120					125					
Lys	Val	Val	Pro	Val	Ser	Asp	Pro	Pro	Val	Asn	Ser	Ser					
	130					135					140						

<210> 696  
 <211> 97  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

<400> 696																	
Pro	Thr	Ser	Pro	Glu	Ile	Gln	Glu	Leu	Arg	Gln	Met	Leu	Gln	Ala	Pro		
1				5				10					15				
His	Phe	Lys	Gly	Ala	Thr	Ile	Lys	Arg	His	Glu	Met	Thr	Gly	Asp	Ile		
			20					25					30				
Leu	Val	Ala	Arg	Ile	Ile	His	Gly	Gly	Leu	Ala	Glu	Arg	Ser	Gly	Leu		
		35					40					45					
Leu	Tyr	Ala	Gly	Asp	Lys	Leu	Val	Glu	Val	Asn	Gly	Val	Ser	Val	Glu		
	50				55						60						
Gly	Leu	Asp	Pro	Glu	Gln	Val	Ile	His	Ile	Leu	Ala	Met	Ser	Arg	Gly		
65					70					75					80		
Thr	Ile	Met	Phe	Lys	Val	Val	Pro	Val	Ser	Asp	Pro	Pro	Val	Asn	Ser		
				85					90					95			
Ser																	

<210> 697  
 <211> 93  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

<400> 697																	
Leu	Asn	Ile	Val	Thr	Val	Thr	Leu	Asn	Met	Glu	Arg	His	His	Phe	Leu		
1				5				10						15			
Gly	Ile	Ser	Ile	Val	Gly	Gln	Ser	Asn	Asp	Arg	Gly	Asp	Gly	Gly	Ile		
			20					25					30				
Tyr	Ile	Gly	Ser	Ile	Met	Lys	Gly	Ala	Val	Ala	Ala	Asp	Gly	Arg			
		35					40					45					
Ile	Glu	Pro	Gly	Asp	Met	Leu	Leu	Gln	Val	Asn	Asp	Val	Asn	Phe	Glu		
	50					55					60						
Asn	Met	Ser	Asn	Asp	Asp	Ala	Val	Arg	Val	Leu	Arg	Glu	Ile	Val	Ser		
65					70					75					80		
Gln	Thr	Gly	Pro	Ile	Ser	Leu	Thr	Val	Ala	Lys	Cys	Trp					
				85					90								

<210> 698  
 <211> 100  
 <212> PRT  
 <213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 698

Leu	Asn	Ile	Ile	Thr	Val	Thr	Leu	Asn	Met	Glu	Lys	Tyr	Asn	Phe	Leu
1				5					10					15	
Gly	Ile	Ser	Ile	Val	Gly	Gln	Ser	Asn	Glu	Arg	Gly	Asp	Gly	Gly	Ile
			20					25					30		
Tyr	Ile	Gly	Ser	Ile	Met	Lys	Gly	Gly	Ala	Val	Ala	Ala	Asp	Gly	Arg
		35				40						45			
Ile	Glu	Pro	Gly	Asp	Met	Leu	Leu	Gln	Val	Asn	Asp	Met	Asn	Phe	Glu
	50					55					60				
Asn	Met	Ser	Asn	Asp	Asp	Ala	Val	Arg	Val	Leu	Arg	Asp	Ile	Val	His
65				70						75					80
Lys	Pro	Gly	Pro	Ile	Val	Leu	Thr	Val	Ala	Lys	Cys	Trp	Asp	Pro	Ser
				85					90					95	
Pro	Gln	Asn	Ser												
			100												

<210> 699

<211> 95

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 699

Ile	Ile	Thr	Val	Thr	Leu	Asn	Met	Glu	Lys	Tyr	Asn	Phe	Leu	Gly	Ile
1				5					10					15	
Ser	Ile	Val	Gly	Gln	Ser	Asn	Glu	Arg	Gly	Asp	Gly	Gly	Ile	Tyr	Ile
			20					25					30		
Gly	Ser	Ile	Met	Lys	Gly	Gly	Ala	Val	Ala	Ala	Asp	Gly	Arg	Ile	Glu
		35				40						45			
Pro	Gly	Asp	Met	Leu	Leu	Gln	Val	Asn	Glu	Ile	Asn	Phe	Glu	Asn	Met
	50					55					60				
Ser	Asn	Asp	Asp	Ala	Val	Arg	Val	Leu	Arg	Glu	Ile	Val	His	Lys	Pro
65				70						75					80
Gly	Pro	Ile	Thr	Leu	Thr	Val	Ala	Lys	Cys	Trp	Asp	Pro	Ser	Pro	
				85					90					95	

<210> 700

<211> 92

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 700

Thr	Thr	Gln	Gln	Ile	Asp	Leu	Gln	Gly	Pro	Gly	Pro	Trp	Gly	Phe	Arg
1				5					10					15	
Leu	Val	Gly	Arg	Lys	Asp	Phe	Glu	Gln	Pro	Leu	Ala	Ile	Ser	Arg	Val
			20					25					30		
Thr	Pro	Gly	Ser	Lys	Ala	Ala	Leu	Ala	Asn	Leu	Cys	Ile	Gly	Asp	Val
		35				40						45			
Ile	Thr	Ala	Ile	Asp	Gly	Glu	Asn	Thr	Ser	Asn	Met	Thr	His	Leu	Glu
	50					55					60				
Ala	Gln	Asn	Arg	Ile	Lys	Gly	Cys	Thr	Asp	Asn	Leu	Thr	Leu	Thr	Val
65				70						75					80
Ala	Arg	Ser	Glu	His	Lys	Val	Trp	Ser	Pro	Leu	Val				
				85					90						

<210> 701  
 <211> 89  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

<400> 701  
 Ile Phe Met Asp Ser Phe Lys Val Val Leu Glu Gly Pro Ala Pro Trp  
 1 5 10 15  
 Gly Phe Arg Leu Gln Gly Gly Lys Asp Phe Asn Val Pro Leu Ser Ile  
 20 25 30  
 Ser Arg Leu Thr Pro Gly Gly Lys Ala Ala Gln Ala Gly Val Ala Val  
 35 40 45  
 Gly Asp Trp Val Leu Ser Ile Asp Gly Glu Asn Ala Gly Ser Leu Thr  
 50 55 60  
 His Ile Glu Ala Gln Asn Lys Ile Arg Ala Cys Gly Glu Arg Leu Ser  
 65 70 75 80  
 Leu Gly Leu Ser Arg Ala Gln Pro Val  
 85

<210> 702  
 <211> 100  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

<400> 702  
 Gln Gly His Glu Leu Ala Lys Gln Glu Ile Arg Val Arg Val Glu Lys  
 1 5 10 15  
 Asp Pro Glu Leu Gly Phe Ser Ile Ser Gly Gly Val Gly Gly Arg Gly  
 20 25 30  
 Asn Pro Phe Arg Pro Asp Asp Asp Gly Ile Phe Val Thr Arg Val Gln  
 35 40 45  
 Pro Glu Gly Pro Ala Ser Lys Leu Leu Gln Pro Gly Asp Lys Ile Ile  
 50 55 60  
 Gln Ala Asn Gly Tyr Ser Phe Ile Asn Ile Glu His Gly Gln Ala Val  
 65 70 75 80  
 Ser Leu Leu Lys Thr Phe Gln Asn Thr Val Glu Leu Ile Ile Val Arg  
 85 90 95  
 Glu Val Ser Ser  
 100

<210> 703  
 <211> 87  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

<400> 703  
 Ile Leu Cys Cys Leu Glu Lys Gly Pro Asn Gly Tyr Gly Phe His Leu  
 1 5 10 15  
 His Gly Glu Lys Gly Lys Leu Gly Gln Tyr Ile Arg Leu Val Glu Pro  
 20 25 30



Gly	Ser	Pro	Ala	Glu	Lys	Ala	Gly	Leu	Leu	Ala	Gly	Asp	Arg	Leu	Val
		35					40					45			
Glu	Val	Asn	Gly	Glu	Asn	Val	Glu	Lys	Glu	Thr	His	Gln	Gln	Val	Val
	50					55					60				
Ser	Arg	Ile	Arg	Ala	Ala	Leu	Asn	Ala	Val	Arg	Leu	Leu	Val	Val	Asp
65					70					75					80
Pro	Glu	Phe	Ile	Val	Thr	Asp									
				85											

<210> 704  
 <211> 92  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

Ile	Arg	Leu	Cys	Thr	Met	Lys	Lys	Gly	Pro	Ser	Gly	Tyr	Gly	Phe	Asn
1				5					10					15	
Leu	His	Ser	Asp	Lys	Ser	Lys	Pro	Gly	Gln	Phe	Ile	Arg	Ser	Val	Asp
			20					25					30		
Pro	Asp	Ser	Pro	Ala	Glu	Ala	Ser	Gly	Leu	Arg	Ala	Gln	Asp	Arg	Ile
		35					40					45			
Val	Glu	Val	Asn	Gly	Val	Cys	Met	Glu	Gly	Lys	Gln	His	Gly	Asp	Val
	50					55					60				
Val	Ser	Ala	Ile	Arg	Ala	Gly	Gly	Asp	Glu	Thr	Lys	Leu	Leu	Val	Val
65					70					75					80
Asp	Arg	Glu	Thr	Asp	Glu	Phe	Phe	Met	Asn	Ser	Ser				
				85					90						

<210> 705  
 <211> 107  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

Lys	Asn	Pro	Ser	Gly	Glu	Leu	Lys	Thr	Val	Thr	Leu	Ser	Lys	Met	Lys
1				5					10					15	
Gln	Ser	Leu	Gly	Ile	Ser	Ile	Ser	Gly	Gly	Ile	Glu	Ser	Lys	Val	Gln
			20					25					30		
Pro	Met	Val	Lys	Ile	Glu	Lys	Ile	Phe	Pro	Gly	Gly	Ala	Ala	Phe	Leu
		35					40					45			
Ser	Gly	Ala	Leu	Gln	Ala	Gly	Phe	Glu	Leu	Val	Ala	Val	Asp	Gly	Glu
	50					55					60				
Asn	Leu	Glu	Gln	Val	Thr	His	Gln	Arg	Ala	Val	Asp	Thr	Ile	Arg	Arg
65					70					75					80
Ala	Tyr	Arg	Asn	Lys	Ala	Arg	Glu	Pro	Met	Glu	Leu	Val	Val	Arg	Val
			85						90					95	
Pro	Gly	Pro	Ser	Pro	Arg	Pro	Ser	Pro	Ser	Asp					
			100					105							

<210> 706  
 <211> 97  
 <212> PRT  
 <213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 706

Glu	Gly	His	Ser	His	Pro	Arg	Val	Val	Glu	Leu	Pro	Lys	Thr	Glu	Glu
1				5					10					15	
Gly	Leu	Gly	Phe	Asn	Ile	Met	Gly	Gly	Lys	Glu	Gln	Asn	Ser	Pro	Ile
			20					25					30		
Tyr	Ile	Ser	Arg	Ile	Ile	Pro	Gly	Gly	Ile	Ala	Asp	Arg	His	Gly	Gly
		35					40				45				
Leu	Lys	Arg	Gly	Asp	Gln	Leu	Ser	Val	Asn	Gly	Val	Ser	Val	Glu	
	50					55				60					
Gly	Glu	His	His	Glu	Lys	Ala	Val	Glu	Leu	Leu	Lys	Ala	Ala	Gln	Gly
65					70					75				80	
Lys	Val	Lys	Leu	Val	Val	Arg	Tyr	Thr	Pro	Lys	Val	Leu	Glu	Glu	Met
				85					90					95	

Glu

<210> 707

<211> 88

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 707

Pro	Gly	Ala	Pro	Tyr	Ala	Arg	Lys	Thr	Phe	Thr	Ile	Val	Gly	Asp	Ala
1				5					10					15	
Val	Gly	Trp	Gly	Phe	Val	Val	Arg	Gly	Ser	Lys	Pro	Cys	His	Ile	Gln
			20					25					30		
Ala	Val	Asp	Pro	Ser	Gly	Pro	Ala	Ala	Ala	Ala	Gly	Met	Lys	Val	Cys
		35					40					45			
Gln	Phe	Val	Val	Ser	Val	Asn	Gly	Leu	Asn	Val	Leu	His	Val	Asp	Tyr
	50					55					60				
Arg	Thr	Val	Ser	Asn	Leu	Ile	Leu	Thr	Gly	Pro	Arg	Thr	Ile	Val	Met
65					70					75					80
Glu	Val	Met	Glu	Glu	Leu	Glu	Cys								
					85										

<210> 708

<211> 97

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 708

Gly	Gln	Tyr	Gly	Gly	Glu	Thr	Val	Lys	Ile	Val	Arg	Ile	Glu	Lys	Ala
1				5					10					15	
Arg	Asp	Ile	Pro	Leu	Gly	Ala	Thr	Val	Arg	Asn	Glu	Met	Asp	Ser	Val
			20					25					30		
Ile	Ile	Ser	Arg	Ile	Val	Lys	Gly	Gly	Ala	Ala	Glu	Lys	Ser	Gly	Leu
		35					40					45			
Leu	His	Glu	Gly	Asp	Glu	Val	Leu	Glu	Ile	Asn	Gly	Ile	Glu	Ile	Arg
	50					55					60				
Gly	Lys	Asp	Val	Asn	Glu	Val	Phe	Asp	Leu	Leu	Ser	Asp	Met	His	Gly
65					70					75					80
Thr	Leu	Thr	Phe	Val	Leu	Ile	Pro	Ser	Gln	Ile	Lys	Pro	Pro	Pro	

Ala

<210> 709  
 <211> 98  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

<400> 709  
 Ile Leu Ala His Val Lys Gly Ile Glu Lys Glu Val Asn Val Tyr Lys  
 1 5 10 15  
 Ser Glu Asp Ser Leu Gly Leu Thr Ile Thr Asp Asn Gly Val Gly Tyr  
 20 25 30  
 Ala Phe Ile Lys Arg Ile Lys Asp Gly Gly Val Ile Asp Ser Val Lys  
 35 40 45  
 Thr Ile Cys Val Gly Asp His Ile Glu Ser Ile Asn Gly Glu Asn Ile  
 50 55 60  
 Val Gly Trp Arg His Tyr Asp Val Ala Lys Lys Leu Lys Glu Leu Lys  
 65 70 75 80  
 Lys Glu Glu Leu Phe Thr Met Lys Leu Ile Glu Pro Lys Lys Ala Phe  
 85 90 95  
 Glu Ile

<210> 710  
 <211> 104  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

<400> 710  
 Lys Pro Ser Gln Ala Ser Gly His Phe Ser Val Glu Leu Val Arg Gly  
 1 5 10 15  
 Tyr Ala Gly Phe Gly Leu Thr Leu Gly Gly Gly Arg Asp Val Ala Gly  
 20 25 30  
 Asp Thr Pro Leu Ala Val Arg Gly Leu Leu Lys Asp Gly Pro Ala Gln  
 35 40 45  
 Arg Cys Gly Arg Leu Glu Val Gly Asp Leu Val Leu His Ile Asn Gly  
 50 55 60  
 Glu Ser Thr Gln Gly Leu Thr His Ala Gln Ala Val Glu Arg Ile Arg  
 65 70 75 80  
 Ala Gly Gly Pro Gln Leu His Leu Val Ile Arg Arg Pro Leu Glu Thr  
 85 90 95  
 His Pro Gly Lys Pro Arg Gly Val  
 100

<210> 711  
 <211> 107  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

<400> 711

Pro	Val	Met	Ser	Gln	Cys	Ala	Cys	Leu	Glu	Glu	Val	His	Leu	Pro	Asn
1				5					10					15	
Ile	Lys	Pro	Gly	Glu	Gly	Leu	Gly	Met	Tyr	Ile	Lys	Ser	Thr	Tyr	Asp
			20					25					30		
Gly	Leu	His	Val	Ile	Thr	Gly	Thr	Thr	Glu	Asn	Ser	Pro	Ala	Asp	Arg
		35					40					45			
Ser	Gln	Lys	Ile	His	Ala	Gly	Asp	Glu	Val	Ile	Gln	Val	Asn	Gln	Gln
	50					55					60				
Thr	Val	Val	Gly	Trp	Gln	Leu	Lys	Asn	Leu	Val	Lys	Lys	Leu	Arg	Glu
65					70					75				80	
Asn	Pro	Thr	Gly	Val	Val	Leu	Leu	Leu	Lys	Lys	Arg	Pro	Thr	Gly	Ser
				85					90					95	
Phe	Asn	Phe	Thr	Pro	Glu	Phe	Ile	Val	Thr	Asp					
			100					105							

<210> 712

<211> 100

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 712

Leu	Asp	Asp	Glu	Glu	Asp	Ser	Val	Lys	Ile	Ile	Arg	Leu	Val	Lys	Asn
1				5					10					15	
Arg	Glu	Pro	Leu	Gly	Ala	Thr	Ile	Lys	Lys	Asp	Glu	Gln	Thr	Gly	Ala
			20					25					30		
Ile	Ile	Val	Ala	Arg	Ile	Met	Arg	Gly	Gly	Ala	Ala	Asp	Arg	Ser	Gly
		35					40					45			
Leu	Ile	His	Val	Gly	Asp	Glu	Leu	Arg	Glu	Val	Asn	Gly	Ile	Pro	Val
	50					55					60				
Glu	Asp	Lys	Arg	Pro	Glu	Glu	Ile	Ile	Gln	Ile	Leu	Ala	Gln	Ser	Gln
65					70					75				80	
Gly	Ala	Ile	Thr	Phe	Lys	Ile	Ile	Pro	Gly	Ser	Lys	Glu	Glu	Thr	Pro
				85					90					95	
Ser	Asn	Ser	Ser												
			100												

<210> 713

<211> 83

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 713

Val	Val	Glu	Leu	Met	Lys	Lys	Glu	Gly	Thr	Thr	Leu	Gly	Leu	Thr	Val
1				5					10					15	
Ser	Gly	Gly	Ile	Asp	Lys	Asp	Gly	Lys	Pro	Arg	Val	Ser	Asn	Leu	Arg
			20					25					30		
Gln	Gly	Gly	Ile	Ala	Ala	Arg	Ser	Asp	Gln	Leu	Asp	Val	Gly	Asp	Tyr
		35					40					45			
Ile	Lys	Ala	Val	Asn	Gly	Ile	Asn	Leu	Ala	Lys	Phe	Arg	His	Asp	Glu
	50					55					60				
Ile	Ile	Ser	Leu	Leu	Lys	Asn	Val	Gly	Glu	Arg	Val	Val	Leu	Glu	Val
65					70					75				80	
Glu	Tyr	Glu													

<210> 714  
 <211> 110  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

<400> 714  
 Arg Ser Ser Val Ile Phe Arg Thr Val Glu Val Thr Leu His Lys Glu  
 1 5 10 15  
 Gly Asn Thr Phe Gly Phe Val Ile Arg Gly Gly Ala His Asp Asp Arg  
 20 25 30  
 Asn Lys Ser Arg Pro Val Val Ile Thr Cys Val Arg Pro Gly Gly Pro  
 35 40 45  
 Ala Asp Arg Glu Gly Thr Ile Lys Pro Gly Asp Arg Leu Leu Ser Val  
 50 55 60  
 Asp Gly Ile Arg Leu Leu Gly Thr Thr His Ala Glu Ala Met Ser Ile  
 65 70 75 80  
 Leu Lys Gln Cys Gly Gln Glu Ala Ala Leu Leu Ile Glu Tyr Asp Val  
 85 90 95  
 Ser Val Met Asp Ser Val Ala Thr Ala Ser Gly Asn Ser Ser  
 100 105 110

<210> 715  
 <211> 106  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

<400> 715  
 His Val Ala Thr Ala Ser Gly Pro Leu Leu Val Glu Val Ala Lys Thr  
 1 5 10 15  
 Pro Gly Ala Ser Leu Gly Val Ala Leu Thr Thr Ser Met Cys Cys Asn  
 20 25 30  
 Lys Gln Val Ile Val Ile Asp Lys Ile Lys Ser Ala Ser Ile Ala Asp  
 35 40 45  
 Arg Cys Gly Ala Leu His Val Gly Asp His Ile Leu Ser Ile Asp Gly  
 50 55 60  
 Thr Ser Met Glu Tyr Cys Thr Leu Ala Glu Ala Thr Gln Phe Leu Ala  
 65 70 75 80  
 Asn Thr Thr Asp Gln Val Lys Leu Glu Ile Leu Pro His His Gln Thr  
 85 90 95  
 Arg Leu Ala Leu Lys Gly Pro Asn Ser Ser  
 100 105

<210> 716  
 <211> 97  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

<400> 716  
 Thr Glu Thr Thr Glu Val Val Leu Thr Ala Asp Pro Val Thr Gly Phe  
 1 5 10 15

Gly	Ile	Gln	Leu	Gln	Gly	Ser	Val	Phe	Ala	Thr	Glu	Thr	Leu	Ser	Ser
		20						25					30		
Pro	Pro	Leu	Ile	Ser	Tyr	Ile	Glu	Ala	Asp	Ser	Pro	Ala	Glu	Arg	Cys
		35					40					45			
Gly	Val	Leu	Gln	Ile	Gly	Asp	Arg	Val	Met	Ala	Ile	Asn	Gly	Ile	Pro
	50					55					60				
Thr	Glu	Asp	Ser	Thr	Phe	Glu	Glu	Ala	Ser	Gln	Leu	Leu	Arg	Asp	Ser
65					70					75				80	
Ser	Ile	Thr	Ser	Lys	Val	Thr	Leu	Glu	Ile	Glu	Phe	Asp	Val	Ala	Glu
				85					90					95	

Ser

<210> 717  
 <211> 101  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

Ala	Glu	Ser	Val	Ile	Pro	Ser	Ser	Gly	Thr	Phe	His	Val	Lys	Leu	Pro
1				5					10					15	
Lys	Lys	His	Asn	Val	Glu	Leu	Gly	Ile	Thr	Ile	Ser	Ser	Pro	Ser	Ser
			20					25					30		
Arg	Lys	Pro	Gly	Asp	Pro	Leu	Val	Ile	Ser	Asp	Ile	Lys	Lys	Gly	Ser
		35					40					45			
Val	Ala	His	Arg	Thr	Gly	Thr	Leu	Glu	Leu	Gly	Asp	Lys	Leu	Leu	Ala
	50					55				60					
Ile	Asp	Asn	Ile	Arg	Leu	Asp	Asn	Cys	Ser	Met	Glu	Asp	Ala	Val	Gln
65					70					75				80	
Ile	Leu	Gln	Gln	Cys	Glu	Asp	Leu	Val	Lys	Leu	Lys	Ile	Arg	Lys	Asp
				85					90					95	

Glu Asp Asn Ser Asp  
 100

<210> 718  
 <211> 90  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

Ile	Tyr	Thr	Val	Glu	Leu	Lys	Arg	Tyr	Gly	Gly	Pro	Leu	Gly	Ile	Thr
1				5					10					15	
Ile	Ser	Gly	Thr	Glu	Glu	Pro	Phe	Asp	Pro	Ile	Ile	Ile	Ser	Ser	Leu
			20					25					30		
Thr	Lys	Gly	Gly	Leu	Ala	Glu	Arg	Thr	Gly	Ala	Ile	His	Ile	Gly	Asp
		35					40					45			
Arg	Ile	Leu	Ala	Ile	Asn	Ser	Ser	Ser	Leu	Lys	Gly	Lys	Pro	Leu	Ser
		50				55					60				
Glu	Ala	Ile	His	Leu	Leu	Gln	Met	Ala	Gly	Glu	Thr	Val	Thr	Leu	Lys
65					70					75				80	

Ile Lys Lys Gln Thr Asp Ala Gln Ser Ala  
 85 90

<210> 719

<211> 95  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

<400> 719

Ile	Met	Ser	Pro	Thr	Pro	Val	Glu	Leu	His	Lys	Val	Thr	Leu	Tyr	Lys
1				5					10					15	
Asp	Ser	Asp	Met	Glu	Asp	Phe	Gly	Phe	Ser	Val	Ala	Asp	Gly	Leu	Leu
			20					25					30		
Glu	Lys	Gly	Val	Tyr	Val	Lys	Asn	Ile	Arg	Pro	Ala	Gly	Pro	Gly	Asp
		35					40					45			
Leu	Gly	Gly	Leu	Lys	Pro	Tyr	Asp	Arg	Leu	Leu	Gln	Val	Asn	His	Val
	50					55					60				
Arg	Thr	Arg	Asp	Phe	Asp	Cys	Cys	Leu	Val	Val	Pro	Leu	Ile	Ala	Glu
65					70					75					80
Ser	Gly	Asn	Lys	Leu	Asp	Leu	Val	Ile	Ser	Arg	Asn	Pro	Leu	Ala	
				85					90					95	

<210> 720  
 <211> 88  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

<400> 720

Ser	Arg	Gly	Cys	Glu	Thr	Arg	Glu	Leu	Ala	Leu	Pro	Arg	Asp	Gly	Gln
1				5					10					15	
Gly	Arg	Leu	Gly	Phe	Glu	Val	Asp	Ala	Glu	Gly	Phe	Val	Thr	His	Val
			20					25					30		
Glu	Arg	Phe	Thr	Phe	Ala	Glu	Thr	Ala	Gly	Leu	Arg	Pro	Gly	Ala	Arg
		35					40				45				
Leu	Leu	Arg	Val	Cys	Gly	Gln	Thr	Leu	Pro	Ser	Leu	Arg	Pro	Glu	Ala
	50					55					60				
Ala	Ala	Gln	Leu	Leu	Arg	Ser	Ala	Pro	Lys	Val	Cys	Val	Thr	Val	Leu
65					70					75					80
Pro	Pro	Asp	Glu	Ser	Gly	Arg	Pro								
					85										

<210> 721  
 <211> 95  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

<400> 721

Ala	Lys	Ala	Lys	Trp	Arg	Gln	Val	Val	Leu	Gln	Lys	Ala	Ser	Arg	Glu
1				5					10					15	
Ser	Pro	Leu	Gln	Phe	Ser	Leu	Asn	Gly	Gly	Ser	Glu	Lys	Gly	Phe	Gly
			20					25					30		
Ile	Phe	Val	Glu	Gly	Val	Glu	Pro	Gly	Ser	Lys	Ala	Ala	Asp	Ser	Gly
		35					40				45				
Leu	Lys	Arg	Gly	Asp	Gln	Ile	Met	Glu	Val	Asn	Gly	Gln	Asn	Phe	Glu
	50					55					60				
Asn	Ile	Thr	Phe	Met	Lys	Ala	Val	Glu	Ile	Leu	Arg	Asn	Asn	Thr	His

65		70		75		80								
Leu	Ala	Leu	Thr	Val	Lys	Thr	Asn	Ile	Phe	Val	Phe	Lys	Glu	Leu
		85							90					95

<210> 722  
 <211> 89  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

<400> 722

Leu	Glu	Asn	Val	Ile	Ala	Lys	Ser	Leu	Leu	Ile	Lys	Ser	Asn	Glu	Gly
1				5					10					15	
Ser	Tyr	Gly	Phe	Gly	Leu	Glu	Asp	Lys	Asn	Lys	Val	Pro	Ile	Ile	Lys
		20						25					30		
Leu	Val	Glu	Lys	Gly	Ser	Asn	Ala	Glu	Met	Ala	Gly	Met	Glu	Val	Gly
		35					40					45			
Lys	Lys	Ile	Phe	Ala	Ile	Asn	Gly	Asp	Leu	Val	Phe	Met	Arg	Pro	Phe
	50					55					60				
Asn	Glu	Val	Asp	Cys	Phe	Leu	Lys	Ser	Cys	Leu	Asn	Ser	Arg	Lys	Pro
65					70					75					80
Leu	Arg	Val	Leu	Val	Ser	Thr	Lys	Pro							
					85										

<210> 723  
 <211> 82  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

<400> 723

Pro	Arg	Glu	Thr	Val	Lys	Ile	Pro	Asp	Ser	Ala	Asp	Gly	Leu	Gly	Phe
1				5					10					15	
Gln	Ile	Arg	Gly	Phe	Gly	Pro	Ser	Val	Val	His	Ala	Val	Gly	Arg	Gly
		20						25					30		
Thr	Val	Ala	Ala	Ala	Ala	Gly	Leu	His	Pro	Gly	Gln	Cys	Ile	Ile	Lys
		35				40						45			
Val	Asn	Gly	Ile	Asn	Val	Ser	Lys	Glu	Thr	His	Ala	Ser	Val	Ile	Ala
	50					55					60				
His	Val	Thr	Ala	Cys	Arg	Lys	Tyr	Arg	Arg	Pro	Thr	Lys	Gln	Asp	Ser
65					70					75					80
Ile	Gln														

<210> 724  
 <211> 100  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

<400> 724

Glu	Asp	Phe	Cys	Tyr	Val	Phe	Thr	Val	Glu	Leu	Glu	Arg	Gly	Pro	Ser
1				5					10					15	
Gly	Leu	Gly	Met	Gly	Leu	Ile	Asp	Gly	Met	His	Thr	His	Leu	Gly	Ala



			20					25					30				
Pro	Gly	Leu	Tyr	Ile	Gln	Thr	Leu	Leu	Pro	Gly	Ser	Pro	Ala	Ala	Ala	Ala	
		35					40					45					
Asp	Gly	Arg	Leu	Ser	Leu	Gly	Asp	Arg	Ile	Leu	Glu	Val	Asn	Gly	Ser		
	50					55					60						
Ser	Leu	Leu	Gly	Leu	Gly	Tyr	Leu	Arg	Ala	Val	Asp	Leu	Ile	Arg	His		
65					70					75					80		
Gly	Gly	Lys	Lys	Met	Arg	Phe	Leu	Val	Ala	Lys	Ser	Asp	Val	Glu	Thr		
				85					90					95			
Ala	Lys	Lys	Ile														
			100														

<210> 725  
 <211> 109  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

Leu	Thr	Glu	Phe	Gln	Asp	Lys	Gln	Ile	Lys	Asp	Trp	Lys	Lys	Arg	Phe		
1				5					10					15			
Ile	Gly	Ile	Arg	Met	Arg	Thr	Ile	Thr	Pro	Ser	Leu	Val	Asp	Glu	Leu		
			20				25						30				
Lys	Ala	Ser	Asn	Pro	Asp	Phe	Pro	Glu	Val	Ser	Ser	Gly	Ile	Tyr	Val		
		35				40						45					
Gln	Glu	Val	Ala	Pro	Asn	Ser	Pro	Ser	Gln	Arg	Gly	Gly	Ile	Gln	Asp		
	50				55						60						
Gly	Asp	Ile	Ile	Val	Lys	Val	Asn	Gly	Arg	Pro	Leu	Val	Asp	Ser	Ser		
65					70				75						80		
Glu	Leu	Gln	Glu	Ala	Val	Leu	Thr	Glu	Ser	Pro	Leu	Leu	Leu	Glu	Val		
				85				90						95			
Arg	Arg	Gly	Asn	Asp	Asp	Leu	Leu	Phe	Ser	Asn	Ser	Ser					
			100					105									

<210> 726  
 <211> 97  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

His	Lys	Lys	Tyr	Leu	Gly	Leu	Gln	Met	Leu	Ser	Leu	Thr	Val	Pro	Leu		
1				5					10					15			
Ser	Glu	Glu	Leu	Lys	Met	His	Tyr	Pro	Asp	Phe	Pro	Asp	Val	Ser	Ser		
			20					25					30				
Gly	Val	Tyr	Val	Cys	Lys	Val	Val	Glu	Gly	Thr	Ala	Ala	Gln	Ser	Ser		
		35				40						45					
Gly	Leu	Arg	Asp	His	Asp	Val	Ile	Val	Asn	Ile	Asn	Gly	Lys	Pro	Ile		
	50				55						60						
Thr	Thr	Thr	Thr	Asp	Val	Val	Lys	Ala	Leu	Asp	Ser	Asp	Ser	Leu	Ser		
65					70					75					80		
Met	Ala	Val	Leu	Arg	Gly	Lys	Asp	Asn	Leu	Leu	Leu	Thr	Val	Asn	Ser		
				85				90						95			
Ser																	

<210> 727  
 <211> 104  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

<400> 727  
 Ile Trp Gln Ile Glu Tyr Ile Asp Ile Glu Arg Pro Ser Thr Gly Gly  
 1 5 10 15  
 Leu Gly Phe Ser Val Val Ala Leu Arg Ser Gln Asn Leu Gly Lys Val  
 20 25 30  
 Asp Ile Phe Val Lys Asp Val Gln Pro Gly Ser Val Ala Asp Arg Asp  
 35 40 45  
 Gln Arg Leu Lys Glu Asn Asp Gln Ile Leu Ala Ile Asn His Thr Pro  
 50 55 60  
 Leu Asp Gln Asn Ile Ser His Gln Gln Ala Ile Ala Leu Leu Gln Gln  
 65 70 75 80  
 Thr Thr Gly Ser Leu Arg Leu Ile Val Ala Arg Glu Pro Val His Thr  
 85 90 95  
 Lys Ser Ser Thr Ser Ser Ser Glu  
 100

<210> 728  
 <211> 78  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

<400> 728  
 Pro Gly His Val Glu Glu Val Glu Leu Ile Asn Asp Gly Ser Gly Leu  
 1 5 10 15  
 Gly Phe Gly Ile Val Gly Gly Lys Thr Ser Gly Val Val Val Arg Thr  
 20 25 30  
 Ile Val Pro Gly Gly Leu Ala Asp Arg Asp Gly Arg Leu Gln Thr Gly  
 35 40 45  
 Asp His Ile Leu Lys Ile Gly Gly Thr Asn Val Gln Gly Met Thr Ser  
 50 55 60  
 Glu Gln Val Ala Gln Val Leu Arg Asn Cys Gly Asn Ser Ser  
 65 70 75

<210> 729  
 <211> 111  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

<400> 729  
 Pro Gly Ser Asp Ser Ser Leu Phe Glu Thr Tyr Asn Val Glu Leu Val  
 1 5 10 15  
 Arg Lys Asp Gly Gln Ser Leu Gly Ile Arg Ile Val Gly Tyr Val Gly  
 20 25 30  
 Thr Ser His Thr Gly Glu Ala Ser Gly Ile Tyr Val Lys Ser Ile Ile  
 35 40 45  
 Pro Gly Ser Ala Ala Tyr His Asn Gly His Ile Gln Val Asn Asp Lys  
 50 55 60

Ile	Val	Ala	Val	Asp	Gly	Val	Asn	Ile	Gln	Gly	Phe	Ala	Asn	His	Asp
65					70					75					80
Val	Val	Glu	Val	Leu	Arg	Asn	Ala	Gly	Gln	Val	Val	His	Leu	Thr	Leu
				85					90					95	
Val	Arg	Arg	Lys	Thr	Ser	Ser	Ser	Thr	Ser	Arg	Ile	His	Arg	Asp	
			100					105					110		

<210> 730  
 <211> 96  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

Asn	Ser	Asp	Asp	Ala	Glu	Leu	Gln	Lys	Tyr	Ser	Lys	Leu	Leu	Pro	Ile
1				5					10					15	
His	Thr	Leu	Arg	Leu	Gly	Val	Glu	Val	Asp	Ser	Phe	Asp	Gly	His	His
			20				25						30		
Tyr	Ile	Ser	Ser	Ile	Val	Ser	Gly	Gly	Pro	Val	Asp	Thr	Leu	Gly	Leu
		35					40					45			
Leu	Gln	Pro	Glu	Asp	Glu	Leu	Leu	Glu	Val	Asn	Gly	Met	Gln	Leu	Tyr
	50					55					60				
Gly	Lys	Ser	Arg	Arg	Glu	Ala	Val	Ser	Phe	Leu	Lys	Glu	Val	Pro	Pro
65					70					75				80	
Pro	Phe	Thr	Leu	Val	Cys	Cys	Arg	Arg	Leu	Phe	Asp	Asp	Glu	Ala	Ser
				85					90					95	

<210> 731  
 <211> 102  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

Leu	Ser	Ser	Pro	Glu	Val	Lys	Ile	Val	Glu	Leu	Val	Lys	Asp	Cys	Lys
1				5					10					15	
Gly	Leu	Gly	Phe	Ser	Ile	Leu	Asp	Tyr	Gln	Asp	Pro	Leu	Asp	Pro	Thr
			20				25					30			
Arg	Ser	Val	Ile	Val	Ile	Arg	Ser	Leu	Val	Ala	Asp	Gly	Val	Ala	Glu
		35					40					45			
Arg	Ser	Gly	Gly	Leu	Leu	Pro	Gly	Asp	Arg	Leu	Val	Ser	Val	Asn	Glu
	50					55					60				
Tyr	Cys	Leu	Asp	Asn	Thr	Ser	Leu	Ala	Glu	Ala	Val	Glu	Ile	Leu	Lys
65					70					75				80	
Ala	Val	Pro	Pro	Gly	Leu	Val	His	Leu	Gly	Ile	Cys	Lys	Pro	Leu	Val
				85					90					95	
Glu	Phe	Ile	Val	Thr	Asp										
			100												

<210> 732  
 <211> 119  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

<400> 732

```
Pro Asn Phe Ser His Trp Gly Pro Pro Arg Ile Val Glu Ile Phe Arg
 1          5          10          15
Glu Pro Asn Val Ser Leu Gly Ile Ser Ile Val Val Gly Gln Thr Val
          20          25          30
Ile Lys Arg Leu Lys Asn Gly Glu Glu Leu Lys Gly Ile Phe Ile Lys
          35          40          45
Gln Val Leu Glu Asp Ser Pro Ala Gly Lys Thr Asn Ala Leu Lys Thr
          50          55          60
Gly Asp Lys Ile Leu Glu Val Ser Gly Val Asp Leu Gln Asn Ala Ser
65          70          75          80
His Ser Glu Ala Val Glu Ala Ile Lys Asn Ala Gly Asn Pro Val Val
          85          90          95
Phe Ile Val Gln Ser Leu Ser Ser Thr Pro Arg Val Ile Pro Asn Val
          100          105          110
His Asn Lys Ala Asn Ser Ser
          115
```

<210> 733

<211> 99

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 733

```
Pro Gly Glu Leu His Ile Ile Glu Leu Glu Lys Asp Lys Asn Gly Leu
 1          5          10          15
Gly Leu Ser Leu Ala Gly Asn Lys Asp Arg Ser Arg Met Ser Ile Phe
          20          25          30
Val Val Gly Ile Asn Pro Glu Gly Pro Ala Ala Ala Asp Gly Arg Met
          35          40          45
Arg Ile Gly Asp Glu Leu Leu Glu Ile Asn Asn Gln Ile Leu Tyr Gly
          50          55          60
Arg Ser His Gln Asn Ala Ser Ala Ile Ile Lys Thr Ala Pro Ser Lys
65          70          75          80
Val Lys Leu Val Phe Ile Arg Asn Glu Asp Ala Val Asn Gln Met Ala
          85          90          95
Asn Ser Ser
```

<210> 734

<211> 93

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 734

```
Pro Ala Thr Cys Pro Ile Val Pro Gly Gln Glu Met Ile Ile Glu Ile
 1          5          10          15
Ser Lys Gly Arg Ser Gly Leu Gly Leu Ser Ile Val Gly Gly Lys Asp
          20          25          30
Thr Pro Leu Asn Ala Ile Val Ile His Glu Val Tyr Glu Glu Gly Ala
          35          40          45
Ala Ala Arg Asp Gly Arg Leu Trp Ala Gly Asp Gln Ile Leu Glu Val
          50          55          60
Asn Gly Val Asp Leu Arg Asn Ser Ser His Glu Glu Ala Ile Thr Ala
```

65		70		75	80							
Leu	Arg	Gln	Thr	Pro	Gln	Lys	Val	Arg	Leu	Val	Val	Tyr
				85					90			

<210> 735  
 <211> 103  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

<400> 735  
 Ile Leu Thr Leu Thr Ile Leu Arg Gln Thr Gly Gly Leu Gly Ile Ser  
 1 5 10 15  
 Ile Ala Gly Gly Lys Gly Ser Thr Pro Tyr Lys Gly Asp Asp Glu Gly  
 20 25 30  
 Ile Phe Ile Ser Arg Val Ser Glu Glu Gly Pro Ala Ala Arg Ala Gly  
 35 40 45  
 Val Arg Val Gly Asp Lys Leu Leu Glu Val Asn Gly Val Ala Leu Gln  
 50 55 60  
 Gly Ala Glu His His Glu Ala Val Glu Ala Leu Arg Gly Ala Gly Thr  
 65 70 75 80  
 Ala Val Gln Met Arg Val Trp Arg Glu Arg Met Val Glu Pro Glu Asn  
 85 90 95  
 Ala Glu Phe Ile Val Thr Asp  
 100

<210> 736  
 <211> 97  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

<400> 736  
 Pro Leu Arg Gln Arg His Val Ala Cys Leu Ala Arg Ser Glu Arg Gly  
 1 5 10 15  
 Leu Gly Phe Ser Ile Ala Gly Gly Lys Gly Ser Thr Pro Tyr Arg Ala  
 20 25 30  
 Gly Asp Ala Gly Ile Phe Val Ser Arg Ile Ala Glu Gly Gly Ala Ala  
 35 40 45  
 His Arg Ala Gly Thr Leu Gln Val Gly Asp Arg Val Leu Ser Ile Asn  
 50 55 60  
 Gly Val Asp Val Thr Glu Ala Arg His Asp His Ala Val Ser Leu Leu  
 65 70 75 80  
 Thr Ala Ala Ser Pro Thr Ile Ala Leu Leu Leu Glu Arg Glu Ala Gly  
 85 90 95  
 Gly

<210> 737  
 <211> 106  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

<400> 737

Ile	Leu	Glu	Gly	Pro	Tyr	Pro	Val	Glu	Glu	Ile	Arg	Leu	Pro	Arg	Ala
1				5					10					15	
Gly	Gly	Pro	Leu	Gly	Leu	Ser	Ile	Val	Gly	Gly	Ser	Asp	His	Ser	Ser
			20					25					30		
His	Pro	Phe	Gly	Val	Gln	Glu	Pro	Gly	Val	Phe	Ile	Ser	Lys	Val	Leu
			35				40					45			
Pro	Arg	Gly	Leu	Ala	Ala	Arg	Ser	Gly	Leu	Arg	Val	Gly	Asp	Arg	Ile
			50			55					60				
Leu	Ala	Val	Asn	Gly	Gln	Asp	Val	Arg	Asp	Ala	Thr	His	Gln	Glu	Ala
65					70				75						80
Val	Ser	Ala	Leu	Leu	Arg	Pro	Cys	Leu	Glu	Leu	Ser	Leu	Leu	Val	Arg
				85					90					95	
Arg	Asp	Pro	Ala	Glu	Phe	Ile	Val	Thr	Asp						
			100					105							

<210> 738

<211> 105

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 738

Arg	Glu	Leu	Cys	Ile	Gln	Lys	Ala	Pro	Gly	Glu	Arg	Leu	Gly	Ile	Ser
1				5					10					15	
Ile	Arg	Gly	Gly	Ala	Arg	Gly	His	Ala	Gly	Asn	Pro	Arg	Asp	Pro	Thr
			20					25					30		
Asp	Glu	Gly	Ile	Phe	Ile	Ser	Lys	Val	Ser	Pro	Thr	Gly	Ala	Ala	Gly
			35				40					45			
Arg	Asp	Gly	Arg	Leu	Arg	Val	Gly	Leu	Arg	Leu	Leu	Glu	Val	Asn	Gln
			50			55					60				
Gln	Ser	Leu	Leu	Gly	Leu	Thr	His	Gly	Glu	Ala	Val	Gln	Leu	Leu	Arg
65					70				75						80
Ser	Val	Gly	Asp	Thr	Leu	Thr	Val	Leu	Val	Cys	Asp	Gly	Phe	Glu	Ala
				85					90					95	
Ser	Thr	Asp	Ala	Ala	Leu	Glu	Val	Ser							
			100					105							

<210> 739

<211> 91

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 739

Pro	His	Gln	Pro	Ile	Val	Ile	His	Ser	Ser	Gly	Lys	Asn	Tyr	Gly	Phe
1				5					10					15	
Thr	Ile	Arg	Ala	Ile	Arg	Val	Tyr	Val	Gly	Asp	Ser	Asp	Ile	Tyr	Thr
			20					25					30		
Val	His	His	Ile	Val	Trp	Asn	Val	Glu	Glu	Gly	Ser	Pro	Ala	Cys	Gln
			35				40					45			
Ala	Gly	Leu	Lys	Ala	Gly	Asp	Leu	Ile	Thr	His	Ile	Asn	Gly	Glu	Pro
			50			55					60				
Val	His	Gly	Leu	Val	His	Thr	Glu	Val	Ile	Glu	Leu	Leu	Leu	Lys	Ser
65					70				75						80
Gly	Asn	Lys	Val	Ser	Ile	Thr	Thr	Thr	Pro	Phe					
				85					90						

<210> 740  
 <211> 105  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

<400> 740  
 Ile Leu Ala Cys Ala Ala Lys Ala Lys Arg Arg Leu Met Thr Leu Thr  
 1 5 10 15  
 Lys Pro Ser Arg Glu Ala Pro Leu Pro Phe Ile Leu Leu Gly Gly Ser  
 20 25 30  
 Glu Lys Gly Phe Gly Ile Phe Val Asp Ser Val Asp Ser Gly Ser Lys  
 35 40 45  
 Ala Thr Glu Ala Gly Leu Lys Arg Gly Asp Gln Ile Leu Glu Val Asn  
 50 55 60  
 Gly Gln Asn Phe Glu Asn Ile Gln Leu Ser Lys Ala Met Glu Ile Leu  
 65 70 75 80  
 Arg Asn Asn Thr His Leu Ser Ile Thr Val Lys Thr Asn Leu Phe Val  
 85 90 95  
 Phe Lys Glu Leu Leu Thr Asn Ser Ser  
 100 105

<210> 741  
 <211> 88  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

<400> 741  
 Ile Pro Pro Ala Pro Arg Lys Val Glu Met Arg Arg Asp Pro Val Leu  
 1 5 10 15  
 Gly Phe Gly Phe Val Ala Gly Ser Glu Lys Pro Val Val Val Arg Ser  
 20 25 30  
 Val Thr Pro Gly Gly Pro Ser Glu Gly Lys Leu Ile Pro Gly Asp Gln  
 35 40 45  
 Ile Val Met Ile Asn Asp Glu Pro Val Ser Ala Ala Pro Arg Glu Arg  
 50 55 60  
 Val Ile Asp Leu Val Arg Ser Cys Lys Glu Ser Ile Leu Leu Thr Val  
 65 70 75 80  
 Ile Gln Pro Tyr Pro Ser Pro Lys  
 85

<210> 742  
 <211> 101  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

<400> 742  
 Leu Asn Lys Arg Thr Thr Met Pro Lys Asp Ser Gly Ala Leu Leu Gly  
 1 5 10 15  
 Leu Lys Val Val Gly Gly Lys Met Thr Asp Leu Gly Arg Leu Gly Ala  
 20 25 30

Phe	Ile	Thr	Lys	Val	Lys	Lys	Gly	Ser	Leu	Ala	Asp	Val	Val	Gly	His
		35					40					45			
Leu	Arg	Ala	Gly	Asp	Glu	Val	Leu	Glu	Trp	Asn	Gly	Lys	Pro	Leu	Pro
	50					55					60				
Gly	Ala	Thr	Asn	Glu	Glu	Val	Tyr	Asn	Ile	Ile	Leu	Glu	Ser	Lys	Ser
65					70					75					80
Glu	Pro	Gln	Val	Glu	Ile	Ile	Val	Ser	Arg	Pro	Ile	Gly	Asp	Ile	Pro
			85					90						95	
Arg	Ile	His	Arg	Asp											
			100												

<210> 743  
 <211> 79  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

Gln	Arg	Cys	Val	Ile	Ile	Gln	Lys	Asp	Gln	His	Gly	Phe	Gly	Phe	Thr
1				5					10					15	
Val	Ser	Gly	Asp	Arg	Ile	Val	Leu	Val	Gln	Ser	Val	Arg	Pro	Gly	Gly
			20					25					30		
Ala	Ala	Met	Lys	Ala	Gly	Val	Lys	Glu	Gly	Asp	Arg	Ile	Ile	Lys	Val
		35				40					45				
Asn	Gly	Thr	Met	Val	Thr	Asn	Ser	Ser	His	Leu	Glu	Val	Val	Lys	Leu
	50					55					60				
Ile	Lys	Ser	Gly	Ala	Tyr	Val	Ala	Leu	Thr	Leu	Leu	Gly	Ser	Ser	
65					70				75						

<210> 744  
 <211> 87  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

Ile	Leu	Val	Gln	Arg	Cys	Val	Ile	Ile	Gln	Lys	Asp	Asp	Asn	Gly	Phe
1				5					10					15	
Gly	Leu	Thr	Val	Ser	Gly	Asp	Asn	Pro	Val	Phe	Val	Gln	Ser	Val	Lys
			20					25					30		
Glu	Asp	Gly	Ala	Ala	Met	Arg	Ala	Gly	Val	Gln	Thr	Gly	Asp	Arg	Ile
		35					40					45			
Ile	Lys	Val	Asn	Gly	Thr	Leu	Val	Thr	His	Ser	Asn	His	Leu	Glu	Val
	50					55					60				
Val	Lys	Leu	Ile	Lys	Ser	Gly	Ser	Tyr	Val	Ala	Leu	Thr	Val	Gln	Gly
65				70					75						80
Arg	Pro	Pro	Gly	Asn	Ser	Ser									
				85											

<210> 745  
 <211> 79  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer



<400> 745  
 Ser Val Glu Met Thr Leu Arg Arg Asn Gly Leu Gly Gln Leu Gly Phe  
 1 5 10 15  
 His Val Asn Tyr Glu Gly Ile Val Ala Asp Val Glu Pro Tyr Gly Tyr  
 20 25 30  
 Ala Trp Gln Ala Gly Leu Arg Gln Gly Ser Arg Leu Val Glu Ile Cys  
 35 40 45  
 Lys Val Ala Val Ala Thr Leu Ser His Glu Gln Met Ile Asp Leu Leu  
 50 55 60  
 Arg Thr Ser Val Thr Val Lys Val Val Ile Ile Pro Pro His Asp  
 65 70 75

<210> 746  
 <211> 96  
 <212> PRT  
 <213> Artificial Sequence

<220> .  
 <223> Synthetic polymer

<400> 746  
 Leu Lys Val Met Thr Ser Gly Trp Glu Thr Val Asp Met Thr Leu Arg  
 1 5 10 15  
 Arg Asn Gly Leu Gly Gln Leu Gly Phe His Val Lys Tyr Asp Gly Thr  
 20 25 30  
 Val Ala Glu Val Glu Asp Tyr Gly Phe Ala Trp Gln Ala Gly Leu Arg  
 35 40 45  
 Gln Gly Ser Arg Leu Val Glu Ile Cys Lys Val Ala Val Val Thr Leu  
 50 55 60  
 Thr His Asp Gln Met Ile Asp Leu Leu Arg Thr Ser Val Thr Val Lys  
 65 70 75 80  
 Val Val Ile Ile Pro Pro Phe Glu Asp Gly Thr Pro Arg Arg Gly Trp  
 85 90 95

<210> 747  
 <211> 105  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

<400> 747  
 His Tyr Ile Phe Pro His Ala Arg Ile Lys Ile Thr Arg Asp Ser Lys  
 1 5 10 15  
 Asp His Thr Val Ser Gly Asn Gly Leu Gly Ile Arg Ile Val Gly Gly  
 20 25 30  
 Lys Glu Ile Pro Gly His Ser Gly Glu Ile Gly Ala Tyr Ile Ala Lys  
 35 40 45  
 Ile Leu Pro Gly Gly Ser Ala Glu Gln Thr Gly Lys Leu Met Glu Gly  
 50 55 60  
 Met Gln Val Leu Glu Trp Asn Gly Ile Pro Leu Thr Ser Lys Thr Tyr  
 65 70 75 80  
 Glu Glu Val Gln Ser Ile Ile Ser Gln Gln Ser Gly Glu Ala Glu Ile  
 85 90 95  
 Cys Val Arg Leu Asp Leu Asn Met Leu  
 100 105

<210> 748

<211> 103  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

<400> 748  
 Leu Cys Gly Ser Leu Arg Pro Pro Ile Val Ile His Ser Ser Gly Lys  
 1 5 10 15  
 Lys Tyr Gly Phe Ser Leu Arg Ala Ile Arg Val Tyr Met Gly Asp Ser  
 20 25 30  
 Asp Val Tyr Thr Val His His Val Val Trp Ser Val Glu Asp Gly Ser  
 35 40 45  
 Pro Ala Gln Glu Ala Gly Leu Arg Ala Gly Asp Leu Ile Thr His Ile  
 50 55 60  
 Asn Gly Glu Ser Val Leu Gly Leu Val His Met Asp Val Val Glu Leu  
 65 70 75 80  
 Leu Leu Lys Ser Gly Asn Lys Ile Ser Leu Arg Thr Thr Ala Leu Glu  
 85 90 95  
 Asn Thr Ser Ile Lys Val Gly  
 100

<210> 749  
 <211> 86  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

<400> 749  
 Ser Tyr Ser Val Thr Leu Thr Gly Pro Gly Pro Trp Gly Phe Arg Leu  
 1 5 10 15  
 Gln Gly Gly Lys Asp Phe Asn Met Pro Leu Thr Ile Ser Arg Ile Thr  
 20 25 30  
 Pro Gly Ser Lys Ala Ala Gln Ser Gln Leu Ser Gln Gly Asp Leu Val  
 35 40 45  
 Val Ala Ile Asp Gly Val Asn Thr Asp Thr Met Thr His Leu Glu Ala  
 50 55 60  
 Gln Asn Lys Ile Lys Ser Ala Ser Tyr Asn Leu Ser Leu Thr Leu Gln  
 65 70 75 80  
 Lys Ser Lys Asn Ser Ser  
 85

<210> 750  
 <211> 91  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

<400> 750  
 Ile Ser Arg Asp Ser Gly Ala Met Leu Gly Leu Lys Val Val Gly Gly  
 1 5 10 15  
 Lys Met Thr Glu Ser Gly Arg Leu Cys Ala Phe Ile Thr Lys Val Lys  
 20 25 30  
 Lys Gly Ser Leu Ala Asp Thr Val Gly His Leu Arg Pro Gly Asp Glu  
 35 40 45  
 Val Leu Glu Trp Asn Gly Arg Leu Leu Gln Gly Ala Thr Phe Glu Glu

50		55		60												
Val	Tyr	Asn	Ile	Ile	Leu	Glu	Ser	Lys	Pro	Glu	Pro	Gln	Val	Glu	Leu	
65				70		75									80	
Val	Val	Ser	Arg	Pro	Ile	Ala	Ile	His	Arg	Asp						
				85					90							

<210> 751  
 <211> 101  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

<400> 751

Ile	Ser	Ala	Leu	Gly	Ser	Met	Arg	Pro	Pro	Ile	Ile	Ile	His	Arg	Ala
1				5					10					15	
Gly	Lys	Lys	Tyr	Gly	Phe	Thr	Leu	Arg	Ala	Ile	Arg	Val	Tyr	Met	Gly
			20					25					30		
Asp	Ser	Asp	Val	Tyr	Thr	Val	His	His	Met	Val	Trp	His	Val	Glu	Asp
		35					40					45			
Gly	Gly	Pro	Ala	Ser	Glu	Ala	Gly	Leu	Arg	Gln	Gly	Asp	Leu	Ile	Thr
		50				55				60					
His	Val	Asn	Gly	Glu	Pro	Val	His	Gly	Leu	Val	His	Thr	Glu	Val	Val
65					70					75					80
Glu	Leu	Ile	Leu	Lys	Ser	Gly	Asn	Lys	Val	Ala	Ile	Ser	Thr	Thr	Pro
				85					90					95	
Leu	Glu	Asn	Ser	Ser											
				100											

<210> 752  
 <211> 94  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

<400> 752

Phe	Ser	Asp	Met	Arg	Ile	Ser	Ile	Asn	Gln	Thr	Pro	Gly	Lys	Ser	Leu
1				5					10					15	
Asp	Phe	Gly	Phe	Thr	Ile	Lys	Trp	Asp	Ile	Pro	Gly	Ile	Phe	Val	Ala
			20					25					30		
Ser	Val	Glu	Ala	Gly	Ser	Pro	Ala	Glu	Phe	Ser	Gln	Leu	Gln	Val	Asp
		35					40					45			
Asp	Glu	Ile	Ile	Ala	Ile	Asn	Asn	Thr	Lys	Phe	Ser	Tyr	Asn	Asp	Ser
		50				55				60					
Lys	Glu	Trp	Glu	Glu	Ala	Met	Ala	Lys	Ala	Gln	Glu	Thr	Gly	His	Leu
65					70					75					80
Val	Met	Asp	Val	Arg	Arg	Tyr	Gly	Lys	Ala	Gly	Ser	Pro	Glu		
				85					90						

<210> 753  
 <211> 98  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

<400> 753

Gln	Ser	Ala	His	Leu	Glu	Val	Ile	Gln	Leu	Ala	Asn	Ile	Lys	Pro	Ser
1				5					10					15	
Glu	Gly	Leu	Gly	Met	Tyr	Ile	Lys	Ser	Thr	Tyr	Asp	Gly	Leu	His	Val
			20					25					30		
Ile	Thr	Gly	Thr	Thr	Glu	Asn	Ser	Pro	Ala	Asp	Arg	Cys	Lys	Lys	Ile
			35				40					45			
His	Ala	Gly	Asp	Glu	Val	Ile	Gln	Val	Asn	His	Gln	Thr	Val	Val	Gly
	50					55					60				
Trp	Gln	Leu	Lys	Asn	Leu	Val	Asn	Ala	Leu	Arg	Glu	Asp	Pro	Ser	Gly
65					70					75					80
Val	Ile	Leu	Thr	Leu	Lys	Lys	Arg	Pro	Gln	Ser	Met	Leu	Thr	Ser	Ala
				85					90					95	
Pro	Ala														

<210> 754

<211> 100

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 754

Ile	Leu	Thr	Gln	Thr	Leu	Ile	Pro	Val	Arg	His	Thr	Val	Lys	Ile	Asp
1				5					10					15	
Lys	Asp	Thr	Leu	Leu	Gln	Asp	Tyr	Gly	Phe	His	Ile	Ser	Glu	Ser	Leu
			20					25					30		
Pro	Leu	Thr	Val	Val	Ala	Val	Thr	Ala	Gly	Gly	Ser	Ala	His	Gly	Lys
			35				40					45			
Leu	Phe	Pro	Gly	Asp	Gln	Ile	Leu	Gln	Met	Asn	Asn	Glu	Pro	Ala	Glu
	50					55					60				
Asp	Leu	Ser	Trp	Glu	Arg	Ala	Val	Asp	Ile	Leu	Arg	Glu	Ala	Glu	Asp
65					70					75					80
Ser	Leu	Ser	Ile	Thr	Val	Val	Arg	Cys	Thr	Ser	Gly	Val	Pro	Lys	Ser
				85					90					95	
Ser	Asn	Ser	Ser												
			100												

<210> 755

<211> 93

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 755

Gly	Leu	Arg	Ser	Pro	Ile	Thr	Ile	Gln	Arg	Ser	Gly	Lys	Lys	Tyr	Gly
1				5					10					15	
Phe	Thr	Leu	Arg	Ala	Ile	Arg	Val	Tyr	Met	Gly	Asp	Thr	Asp	Val	Tyr
			20					25					30		
Ser	Val	His	His	Ile	Val	Trp	His	Val	Glu	Glu	Gly	Gly	Pro	Ala	Gln
			35				40					45			
Glu	Ala	Gly	Leu	Cys	Ala	Gly	Asp	Leu	Ile	Thr	His	Val	Asn	Gly	Glu
	50					55					60				
Pro	Val	His	Gly	Met	Val	His	Pro	Glu	Val	Val	Glu	Leu	Ile	Leu	Lys
65					70					75					80
Ser	Gly	Asn	Lys	Val	Ala	Val	Thr	Thr	Thr	Pro	Phe	Glu			
				85					90						

<210> 756  
 <211> 107  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

<400> 756  
 Gln Gly Glu Glu Thr Lys Ser Leu Thr Leu Val Leu His Arg Asp Ser  
 1 5 10 15  
 Gly Ser Leu Gly Phe Asn Ile Ile Gly Gly Arg Pro Ser Val Asp Asn  
 20 25 30  
 His Asp Gly Ser Ser Ser Glu Gly Ile Phe Val Ser Lys Ile Val Asp  
 35 40 45  
 Ser Gly Pro Ala Ala Lys Glu Gly Gly Leu Gln Ile His Asp Arg Ile  
 50 55 60  
 Ile Glu Val Asn Gly Arg Asp Leu Ser Arg Ala Thr His Asp Gln Ala  
 65 70 75 80  
 Val Glu Ala Phe Lys Thr Ala Lys Glu Pro Ile Val Val Gln Val Leu  
 85 90 95  
 Arg Arg Thr Pro Arg Thr Lys Met Phe Thr Pro  
 100 105

<210> 757  
 <211> 101  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

<400> 757  
 Gln Glu Met Asp Arg Glu Glu Leu Glu Leu Glu Glu Val Asp Leu Tyr  
 1 5 10 15  
 Arg Met Asn Ser Gln Asp Lys Leu Gly Leu Thr Val Cys Tyr Arg Thr  
 20 25 30  
 Asp Asp Glu Asp Asp Ile Gly Ile Tyr Ile Ser Glu Ile Asp Pro Asn  
 35 40 45  
 Ser Ile Ala Ala Lys Asp Gly Arg Ile Arg Glu Gly Asp Arg Ile Ile  
 50 55 60  
 Gln Ile Asn Gly Ile Glu Val Gln Asn Arg Glu Glu Ala Val Ala Leu  
 65 70 75 80  
 Leu Thr Ser Glu Glu Asn Lys Asn Phe Ser Leu Leu Ile Ala Arg Pro  
 85 90 95  
 Glu Leu Gln Leu Asp  
 100

<210> 758  
 <211> 91  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

<400> 758  
 Arg Ser Phe Gln Tyr Val Pro Val Gln Leu Gln Gly Gly Ala Pro Trp  
 1 5 10 15

Gly	Phe	Thr	Leu	Lys	Gly	Gly	Leu	Glu	His	Cys	Glu	Pro	Leu	Thr	Val
			20					25					30		
Ser	Lys	Ile	Glu	Asp	Gly	Gly	Lys	Ala	Ala	Leu	Ser	Gln	Lys	Met	Arg
		35					40					45			
Thr	Gly	Asp	Glu	Leu	Val	Asn	Ile	Asn	Gly	Thr	Pro	Leu	Tyr	Gly	Ser
	50					55					60				
Arg	Gln	Glu	Ala	Leu	Ile	Leu	Ile	Lys	Gly	Ser	Phe	Arg	Ile	Leu	Lys
65					70					75					80
Leu	Ile	Val	Arg	Arg	Arg	Asn	Ala	Pro	Val	Ser					
				85					90						

<210> 759  
 <211> 102  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

Ile	Leu	Glu	Lys	Leu	Glu	Leu	Phe	Pro	Val	Glu	Leu	Glu	Lys	Asp	Glu
1				5					10					15	
Asp	Gly	Leu	Gly	Ile	Ser	Ile	Ile	Gly	Met	Gly	Val	Gly	Ala	Asp	Ala
		20						25					30		
Gly	Leu	Glu	Lys	Leu	Gly	Ile	Phe	Val	Lys	Thr	Val	Thr	Glu	Gly	Gly
	35					40					45				
Ala	Ala	Gln	Arg	Asp	Gly	Arg	Ile	Gln	Val	Asn	Asp	Gln	Ile	Val	Glu
50					55					60					
Val	Asp	Gly	Ile	Ser	Leu	Val	Gly	Val	Thr	Gln	Asn	Phe	Ala	Ala	Thr
65					70					75					80
Val	Leu	Arg	Asn	Thr	Lys	Gly	Asn	Val	Arg	Phe	Val	Ile	Gly	Arg	Glu
				85					90					95	
Lys	Pro	Gly	Gln	Val	Ser										
				100											

<210> 760  
 <211> 113  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

Lys	Asp	Val	Asn	Val	Tyr	Val	Asn	Pro	Lys	Lys	Leu	Thr	Val	Ile	Lys
1				5					10					15	
Ala	Lys	Glu	Gln	Leu	Lys	Leu	Leu	Glu	Val	Leu	Val	Gly	Ile	Ile	His
		20						25					30		
Gln	Thr	Lys	Trp	Ser	Trp	Arg	Arg	Thr	Gly	Lys	Gln	Gly	Asp	Gly	Glu
	35					40						45			
Arg	Leu	Val	Val	His	Gly	Leu	Leu	Pro	Gly	Gly	Ser	Ala	Met	Lys	Ser
50					55						60				
Gly	Gln	Val	Leu	Ile	Gly	Asp	Val	Leu	Val	Ala	Val	Asn	Asp	Val	Asp
65					70					75					80
Val	Thr	Thr	Glu	Asn	Ile	Glu	Arg	Val	Leu	Ser	Cys	Ile	Pro	Gly	Pro
				85					90					95	
Met	Gln	Val	Lys	Leu	Thr	Phe	Glu	Asn	Ala	Tyr	Asp	Val	Lys	Arg	Glu
			100						105					110	
Thr															

<210> 761  
 <211> 90  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

<400> 761  
 Thr Arg Gly Cys Glu Thr Val Glu Met Thr Leu Arg Arg Asn Gly Leu  
 1 5 10 15  
 Gly Gln Leu Gly Phe His Val Asn Phe Glu Gly Ile Val Ala Asp Val  
 20 25 30  
 Glu Pro Phe Gly Phe Ala Trp Lys Ala Gly Leu Arg Gln Gly Ser Arg  
 35 40 45  
 Leu Val Glu Ile Cys Lys Val Ala Val Ala Thr Leu Thr His Glu Gln  
 50 55 60  
 Met Ile Asp Leu Leu Arg Thr Ser Val Thr Val Lys Val Val Ile Ile  
 65 70 75 80  
 Gln Pro His Asp Asp Gly Ser Pro Arg Arg  
 85 90

<210> 762  
 <211> 96  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

<400> 762  
 Val Glu Asn Ile Leu Ala Lys Arg Leu Leu Ile Leu Pro Gln Glu Glu  
 1 5 10 15  
 Asp Tyr Gly Phe Asp Ile Glu Glu Lys Asn Lys Ala Val Val Val Lys  
 20 25 30  
 Ser Val Gln Arg Gly Ser Leu Ala Glu Val Ala Gly Leu Gln Val Gly  
 35 40 45  
 Arg Lys Ile Tyr Ser Ile Asn Glu Asp Leu Val Phe Leu Arg Pro Phe  
 50 55 60  
 Ser Glu Val Glu Ser Ile Leu Asn Gln Ser Phe Cys Ser Arg Arg Pro  
 65 70 75 80  
 Leu Arg Leu Leu Val Ala Thr Lys Ala Lys Glu Ile Ile Lys Ile Pro  
 85 90 95

<210> 763  
 <211> 103  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

<400> 763  
 Pro Asp Ser Ala Gly Pro Gly Glu Val Arg Leu Val Ser Leu Arg Arg  
 1 5 10 15  
 Ala Lys Ala His Glu Gly Leu Gly Phe Ser Ile Arg Gly Gly Ser Glu  
 20 25 30  
 His Gly Val Gly Ile Tyr Val Ser Leu Val Glu Pro Gly Ser Leu Ala  
 35 40 45  
 Glu Lys Glu Gly Leu Arg Val Gly Asp Gln Ile Leu Arg Val Asn Asp

50		55		60	
Lys Ser Leu Ala Arg Val Thr His Ala Glu Ala Val Lys Ala Leu Lys					
65		70		75	80
Gly Ser Lys Lys Leu Val Leu Ser Val Tyr Ser Ala Gly Arg Ile Pro					
	85		90		95
Gly Gly Tyr Val Thr Asn His					
100					

<210> 764  
 <211> 100  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

<400> 764	
Leu Gln Gly Gly Asp Glu Lys Lys Val Asn Leu Val Leu Gly Asp Gly	
1	5 10 15
Arg Ser Leu Gly Leu Thr Ile Arg Gly Gly Ala Glu Tyr Gly Leu Gly	
	20 25 30
Ile Tyr Ile Thr Gly Val Asp Pro Gly Ser Glu Ala Glu Gly Ser Gly	
	35 40 45
Leu Lys Val Gly Asp Gln Ile Leu Glu Val Asn Trp Arg Ser Phe Leu	
	50 55 60
Asn Ile Leu His Asp Glu Ala Val Arg Leu Leu Lys Ser Ser Arg His	
65	70 75 80
Leu Ile Leu Thr Val Lys Asp Val Gly Arg Leu Pro His Ala Arg Thr	
	85 90 95
Thr Val Asp Glu	
100	

<210> 765  
 <211> 87  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

<400> 765	
Trp Thr Ser Gly Ala His Val His Ser Gly Pro Cys Glu Glu Lys Cys	
1	5 10 15
Gly His Pro Gly His Arg Gln Pro Leu Pro Arg Ile Val Thr Ile Gln	
	20 25 30
Arg Gly Gly Ser Ala His Asn Cys Gly Gln Leu Lys Val Gly His Val	
	35 40 45
Ile Leu Glu Val Asn Gly Leu Thr Leu Arg Gly Lys Glu His Arg Glu	
	50 55 60
Ala Ala Arg Ile Ile Ala Glu Ala Phe Lys Thr Lys Asp Arg Asp Tyr	
65	70 75 80
Ile Asp Phe Leu Asp Ser Leu	
	85

<210> 766  
 <211> 100  
 <212> PRT  
 <213> Artificial Sequence

<220>



<223> Synthetic polymer

<400> 766

Glu	Leu	Arg	Arg	Ala	Glu	Leu	Val	Glu	Ile	Ile	Val	Glu	Thr	Glu	Ala
1				5					10					15	
Gln	Thr	Gly	Val	Ser	Gly	Ile	Asn	Val	Ala	Gly	Gly	Gly	Lys	Glu	Gly
			20					25					30		
Ile	Phe	Val	Arg	Glu	Leu	Arg	Glu	Asp	Ser	Pro	Ala	Ala	Arg	Ser	Leu
			35				40					45			
Ser	Leu	Gln	Glu	Gly	Asp	Gln	Leu	Leu	Ser	Ala	Arg	Val	Phe	Phe	Glu
	50					55				60					
Asn	Phe	Lys	Tyr	Glu	Asp	Ala	Leu	Arg	Leu	Leu	Gln	Cys	Ala	Glu	Pro
65					70					75					80
Tyr	Lys	Val	Ser	Phe	Cys	Leu	Lys	Arg	Thr	Val	Pro	Thr	Gly	Asp	Leu
				85					90					95	
Ala	Leu	Arg	Pro												
			100												

<210> 767

<211> 102

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 767

Pro	Ser	Gln	Leu	Lys	Gly	Val	Leu	Val	Arg	Ala	Ser	Leu	Lys	Lys	Ser
1				5					10					15	
Thr	Met	Gly	Phe	Gly	Phe	Thr	Ile	Ile	Gly	Gly	Asp	Arg	Pro	Asp	Glu
			20					25					30		
Phe	Leu	Gln	Val	Lys	Asn	Val	Leu	Lys	Asp	Gly	Pro	Ala	Ala	Gln	Asp
			35				40					45			
Gly	Lys	Ile	Ala	Pro	Gly	Asp	Val	Ile	Val	Asp	Ile	Asn	Gly	Asn	Cys
	50					55				60					
Val	Leu	Gly	His	Thr	His	Ala	Asp	Val	Val	Gln	Met	Phe	Gln	Leu	Val
65					70					75					80
Pro	Val	Asn	Gln	Tyr	Val	Asn	Leu	Thr	Leu	Cys	Arg	Gly	Tyr	Pro	Leu
				85					90					95	
Pro	Asp	Asp	Ser	Glu	Asp										
			100												

<210> 768

<211> 100

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 768

Ala	Ser	Ser	Gly	Ser	Ser	Gln	Pro	Glu	Leu	Val	Thr	Ile	Pro	Leu	Ile
1				5					10					15	
Lys	Gly	Pro	Lys	Gly	Phe	Gly	Phe	Ala	Ile	Ala	Asp	Ser	Pro	Thr	Gly
			20					25					30		
Gln	Lys	Val	Lys	Met	Ile	Leu	Asp	Ser	Gln	Trp	Cys	Gln	Gly	Leu	Gln
			35				40					45			
Lys	Gly	Asp	Ile	Ile	Lys	Glu	Ile	Tyr	His	Gln	Asn	Val	Gln	Asn	Leu
	50					55				60					
Thr	His	Leu	Gln	Val	Val	Glu	Val	Leu	Lys	Gln	Phe	Pro	Val	Gly	Ala
65					70					75					80

Asp Val Pro Leu Leu Ile Leu Arg Gly Gly Pro Pro Ser Pro Thr Lys  
85 90 95  
Thr Ala Lys Met  
100

<210> 769  
<211> 143  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic polymer

<400> 769  
Leu Tyr Glu Asp Lys Pro Pro Leu Thr Asn Thr Phe Leu Ile Ser Asn  
1 5 10 15  
Pro Arg Thr Thr Ala Asp Pro Arg Ile Leu Tyr Glu Asp Lys Pro Pro  
20 25 30  
Asn Thr Lys Asp Leu Asp Val Phe Leu Arg Lys Gln Glu Ser Gly Phe  
35 40 45  
Gly Phe Arg Val Leu Gly Gly Asp Gly Pro Asp Gln Ser Ile Tyr Ile  
50 55 60  
Gly Ala Ile Ile Pro Leu Gly Ala Ala Glu Lys Asp Gly Arg Leu Arg  
65 70 75 80  
Ala Ala Asp Glu Leu Met Cys Ile Asp Gly Ile Pro Val Lys Gly Lys  
85 90 95  
Ser His Lys Gln Val Leu Asp Leu Met Thr Thr Ala Ala Arg Asn Gly  
100 105 110  
His Val Leu Leu Thr Val Arg Arg Lys Ile Phe Tyr Gly Glu Lys Gln  
115 120 125  
Pro Glu Asp Asp Ser Gly Ser Pro Gly Ile His Arg Glu Leu Thr  
130 135 140

<210> 770  
<211> 102  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic polymer

<400> 770  
Pro Ala Pro Gln Glu Pro Tyr Asp Val Val Leu Gln Arg Lys Glu Asn  
1 5 10 15  
Glu Gly Phe Gly Phe Val Ile Leu Thr Ser Lys Asn Lys Pro Pro Pro  
20 25 30  
Gly Val Ile Pro His Lys Ile Gly Arg Val Ile Glu Gly Ser Pro Ala  
35 40 45  
Asp Arg Cys Gly Lys Leu Lys Val Gly Asp His Ile Ser Ala Val Asn  
50 55 60  
Gly Gln Ser Ile Val Glu Leu Ser His Asp Asn Ile Val Gln Leu Ile  
65 70 75 80  
Lys Asp Ala Gly Val Thr Val Thr Leu Thr Val Ile Ala Glu Glu Glu  
85 90 95  
His His Gly Pro Pro Ser  
100

<210> 771  
<211> 98  
<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 771

Gln	Asn	Leu	Gly	Cys	Tyr	Pro	Val	Glu	Leu	Glu	Arg	Gly	Pro	Arg	Gly	
1				5				10					15			
Phe	Gly	Phe	Ser	Leu	Arg	Gly	Gly	Lys	Glu	Tyr	Asn	Met	Gly	Leu	Phe	
			20					25					30			
Ile	Leu	Arg	Leu	Ala	Glu	Asp	Gly	Pro	Ala	Ile	Lys	Asp	Gly	Arg	Ile	
		35					40					45				
His	Val	Gly	Asp	Gln	Ile	Val	Glu	Ile	Asn	Gly	Glu	Pro	Thr	Gln	Gly	
	50					55					60					
Ile	Thr	His	Thr	Arg	Ala	Ile	Glu	Leu	Ile	Gln	Ala	Gly	Gly	Asn	Lys	
65					70					75					80	
Val	Leu	Leu	Leu	Leu	Arg	Pro	Gly	Thr	Gly	Leu	Ile	Pro	Asp	His	Gly	
				85					90					95		
Leu	Ala															

<210> 772

<211> 84

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 772

Ile	Thr	Val	Val	Glu	Leu	Ile	Lys	Lys	Glu	Gly	Ser	Thr	Leu	Gly	Leu	
1				5					10				15			
Thr	Ile	Ser	Gly	Gly	Thr	Asp	Lys	Asp	Gly	Lys	Pro	Arg	Val	Ser	Asn	
			20					25					30			
Leu	Arg	Pro	Gly	Gly	Leu	Ala	Ala	Arg	Ser	Asp	Leu	Leu	Asn	Ile	Gly	
		35					40					45				
Asp	Tyr	Ile	Arg	Ser	Val	Asn	Gly	Ile	His	Leu	Thr	Arg	Leu	Arg	His	
	50					55					60					
Asp	Glu	Ile	Ile	Thr	Leu	Leu	Lys	Asn	Val	Gly	Glu	Arg	Val	Val	Leu	
65					70					75					80	
Glu	Val	Glu	Tyr													

<210> 773

<211> 92

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 773

Ile	Leu	Asp	Val	Ser	Leu	Tyr	Lys	Glu	Gly	Asn	Ser	Phe	Gly	Phe	Val	
1				5				10					15			
Leu	Arg	Gly	Gly	Ala	His	Glu	Asp	Gly	His	Lys	Ser	Arg	Pro	Leu	Val	
			20					25					30			
Leu	Thr	Tyr	Val	Arg	Pro	Gly	Gly	Pro	Ala	Asp	Arg	Glu	Gly	Ser	Leu	
		35					40					45				
Lys	Val	Gly	Asp	Arg	Leu	Leu	Ser	Val	Asp	Gly	Ile	Pro	Leu	His	Gly	
	50					55					60					
Ala	Ser	His	Ala	Thr	Ala	Leu	Ala	Thr	Leu	Arg	Gln	Cys	Ser	His	Glu	

65		70		75		80					
Ala	Leu	Phe	Gln	Val	Glu	Tyr	Asp	Val	Ala	Thr	Pro
				85					90		

<210> 774  
 <211> 102  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

<400> 774  
 Ile His Thr Val Ala Asn Ala Ser Gly Pro Leu Met Val Glu Ile Val  
 1 5 10 15  
 Lys Thr Pro Gly Ser Ala Leu Gly Ile Ser Leu Thr Thr Thr Ser Leu  
 20 25 30  
 Arg Asn Lys Ser Val Ile Thr Ile Asp Arg Ile Lys Pro Ala Ser Val  
 35 40 45  
 Val Asp Arg Ser Gly Ala Leu His Pro Gly Asp His Ile Leu Ser Ile  
 50 55 60  
 Asp Gly Thr Ser Met Glu His Cys Ser Leu Leu Glu Ala Thr Lys Leu  
 65 70 75 80  
 Leu Ala Ser Ile Ser Glu Lys Val Arg Leu Glu Ile Leu Pro Val Pro  
 85 90 95  
 Gln Ser Gln Arg Pro Leu  
 100

<210> 775  
 <211> 103  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

<400> 775  
 Ile Gln Ile Val His Thr Glu Thr Thr Glu Val Val Leu Cys Gly Asp  
 1 5 10 15  
 Pro Leu Ser Gly Phe Gly Leu Gln Leu Gln Gly Gly Ile Phe Ala Thr  
 20 25 30  
 Glu Thr Leu Ser Ser Pro Pro Leu Val Cys Phe Ile Glu Pro Asp Ser  
 35 40 45  
 Pro Ala Glu Arg Cys Gly Leu Leu Gln Val Gly Asp Arg Val Leu Ser  
 50 55 60  
 Ile Asn Gly Ile Ala Thr Glu Asp Gly Thr Met Glu Glu Ala Asn Gln  
 65 70 75 80  
 Leu Leu Arg Asp Ala Ala Leu Ala His Lys Val Val Leu Glu Val Glu  
 85 90 95  
 Phe Asp Val Ala Glu Ser Val  
 100

<210> 776  
 <211> 103  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

<400> 776

Ile	Gln	Phe	Asp	Val	Ala	Glu	Ser	Val	Ile	Pro	Ser	Ser	Gly	Thr	Phe
1				5					10					15	
His	Val	Lys	Leu	Pro	Lys	Lys	Arg	Ser	Val	Glu	Leu	Gly	Ile	Thr	Ile
			20					25					30		
Ser	Ser	Ala	Ser	Arg	Lys	Arg	Gly	Glu	Pro	Leu	Ile	Ile	Ser	Asp	Ile
		35					40						45		
Lys	Lys	Gly	Ser	Val	Ala	His	Arg	Thr	Gly	Thr	Leu	Glu	Pro	Gly	Asp
		50				55					60				
Lys	Leu	Leu	Ala	Ile	Asp	Asn	Ile	Arg	Leu	Asp	Asn	Cys	Pro	Met	Glu
65					70					75					80
Asp	Ala	Val	Gln	Ile	Leu	Arg	Gln	Cys	Glu	Asp	Leu	Val	Lys	Leu	Lys
			85						90					95	
Ile	Arg	Lys	Asp	Glu	Asp	Asn									
			100												

<210> 777

<211> 94

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 777

Ile	Gln	Thr	Thr	Gly	Ala	Val	Ser	Tyr	Thr	Val	Glu	Leu	Lys	Arg	Tyr
1				5					10					15	
Gly	Gly	Pro	Leu	Gly	Ile	Thr	Ile	Ser	Gly	Thr	Glu	Glu	Pro	Phe	Asp
			20					25					30		
Pro	Ile	Val	Ile	Ser	Gly	Leu	Thr	Lys	Arg	Gly	Leu	Ala	Glu	Arg	Thr
		35					40					45			
Gly	Ala	Ile	His	Val	Gly	Asp	Arg	Ile	Leu	Ala	Ile	Asn	Asn	Val	Ser
	50					55					60				
Leu	Lys	Gly	Arg	Pro	Leu	Ser	Glu	Ala	Ile	His	Leu	Leu	Gln	Val	Ala
65					70					75					80
Gly	Glu	Thr	Val	Thr	Leu	Lys	Ile	Lys	Lys	Gln	Leu	Asp	Arg		
				85					90						

<210> 778

<211> 105

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 778

Ile	Leu	Glu	Met	Glu	Glu	Leu	Leu	Leu	Pro	Thr	Pro	Leu	Glu	Met	His
1				5					10					15	
Lys	Val	Thr	Leu	His	Lys	Asp	Pro	Met	Arg	His	Asp	Phe	Gly	Phe	Ser
			20					25					30		
Val	Ser	Asp	Gly	Leu	Leu	Glu	Lys	Gly	Val	Tyr	Val	His	Thr	Val	Arg
		35					40					45			
Pro	Asp	Gly	Pro	Ala	His	Arg	Gly	Gly	Leu	Gln	Pro	Phe	Asp	Arg	Val
	50					55					60				
Leu	Gln	Val	Asn	His	Val	Arg	Thr	Arg	Asp	Phe	Asp	Cys	Cys	Leu	Ala
65					70					75					80
Val	Pro	Leu	Leu	Ala	Glu	Ala	Gly	Asp	Val	Leu	Glu	Leu	Ile	Ile	Ser
			85						90					95	
Arg	Lys	Pro	His	Thr	Ala	His	Ser	Ser							
			100					105							

<210> 779  
 <211> 91  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

<400> 779  
 Met Ala Leu Thr Val Asp Val Ala Gly Pro Ala Pro Trp Gly Phe Arg  
 1 5 10 15  
 Ile Thr Gly Gly Arg Asp Phe His Thr Pro Ile Met Val Thr Lys Val  
 20 25 30  
 Ala Glu Arg Gly Lys Ala Lys Asp Ala Asp Leu Arg Pro Gly Asp Ile  
 35 40 45  
 Ile Val Ala Ile Asn Gly Glu Ser Ala Glu Gly Met Leu His Ala Glu  
 50 55 60  
 Ala Gln Ser Lys Ile Arg Gln Ser Pro Ser Pro Leu Arg Leu Gln Leu  
 65 70 75 80  
 Asp Arg Ser Gln Ala Thr Ser Pro Gly Gln Thr  
 85 90

<210> 780  
 <211> 84  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

<400> 780  
 Ser Asn Tyr Ser Val Ser Leu Val Gly Pro Ala Pro Trp Gly Phe Arg  
 1 5 10 15  
 Leu Gln Gly Gly Lys Asp Phe Asn Met Pro Leu Thr Ile Ser Ser Leu  
 20 25 30  
 Lys Asp Gly Gly Lys Ala Ala Gln Ala Asn Val Arg Ile Gly Asp Val  
 35 40 45  
 Val Leu Ser Ile Asp Gly Ile Asn Ala Gln Gly Met Thr His Leu Glu  
 50 55 60  
 Ala Gln Asn Lys Ile Lys Gly Cys Thr Gly Ser Leu Asn Met Thr Leu  
 65 70 75 80  
 Gln Arg Ala Ser

<210> 781  
 <211> 133  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

<400> 781  
 Thr Leu Val Glu His Ser Lys Leu Tyr Cys Gly His Cys Tyr Tyr Gln  
 1 5 10 15  
 Thr Val Val Thr Pro Val Ile Glu Gln Ile Leu Pro Asp Ser Pro Gly  
 20 25 30  
 Ser His Leu Pro His Thr Val Thr Leu Val Ser Ile Pro Ala Ser Ser  
 35 40 45



<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 784

```
Val Cys Tyr Arg Thr Asp Asp Glu Glu Asp Leu Gly Ile Tyr Val Gly
 1          5          10          15
Glu Val Asn Pro Asn Ser Ile Ala Ala Lys Asp Gly Arg Ile Arg Glu
          20          25          30
Gly Asp Arg Ile Ile Gln Ile Asn Gly Val Asp Val Gln Asn Arg Glu
          35          40          45
Glu Ala Val Ala Ile Leu Ser Gln Glu Glu Asn Thr Asn Ile Ser Leu
          50          55          60
Leu Val Ala Arg Pro Glu Ser Gln Leu Ala
65          70
```

<210> 785

<211> 103

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 785

```
Ile Gln Lys Lys Asn His Trp Thr Ser Arg Val His Glu Cys Thr Val
 1          5          10          15
Lys Arg Gly Pro Gln Gly Glu Leu Gly Val Thr Val Leu Gly Gly Ala
          20          25          30
Glu His Gly Glu Phe Pro Tyr Val Gly Ala Val Ala Ala Val Glu Ala
          35          40          45
Ala Gly Leu Pro Gly Gly Gly Glu Gly Pro Arg Leu Gly Glu Gly Glu
          50          55          60
Leu Leu Leu Glu Val Gln Gly Val Arg Val Ser Gly Leu Pro Arg Tyr
65          70          75          80
Asp Val Leu Gly Val Ile Asp Ser Cys Lys Glu Ala Val Thr Phe Lys
          85          90          95
Ala Val Arg Gln Gly Gly Arg
          100
```

<210> 786

<211> 104

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 786

```
Pro Ser Glu Leu Lys Gly Lys Phe Ile His Thr Lys Leu Arg Lys Ser
 1          5          10          15
Ser Arg Gly Phe Gly Phe Thr Val Val Gly Gly Asp Glu Pro Asp Glu
          20          25          30
Phe Leu Gln Ile Lys Ser Leu Val Leu Asp Gly Pro Ala Ala Leu Asp
          35          40          45
Gly Lys Met Glu Thr Gly Asp Val Ile Val Ser Val Asn Asp Thr Cys
          50          55          60
Val Leu Gly His Thr His Ala Gln Val Val Lys Ile Phe Gln Ser Ile
65          70          75          80
Pro Ile Gly Ala Ser Val Asp Leu Glu Leu Cys Arg Gly Tyr Pro Leu
```



85  
Pro Phe Asp Pro Asp Asp Pro Asn  
100

90

95

<210> 787  
<211> 92  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic polymer

<400> 787  
Pro Ala Thr Gln Pro Glu Leu Ile Thr Val His Ile Val Lys Gly Pro  
1 5 10 15  
Met Gly Phe Gly Phe Thr Ile Ala Asp Ser Pro Gly Gly Gly Gly Gln  
20 25 30  
Arg Val Lys Gln Ile Val Asp Ser Pro Arg Cys Arg Gly Leu Lys Glu  
35 40 45  
Gly Asp Leu Ile Val Glu Val Asn Lys Lys Asn Val Gln Ala Leu Thr  
50 55 60  
His Asn Gln Val Val Asp Met Leu Val Glu Cys Pro Lys Gly Ser Glu  
65 70 75 80  
Val Thr Leu Leu Val Gln Arg Gly Gly Asn Leu Ser  
85 90

<210> 788  
<211> 102  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic polymer

<400> 788  
Pro Asp Tyr Gln Glu Gln Asp Ile Phe Leu Trp Arg Lys Glu Thr Gly  
1 5 10 15  
Phe Gly Phe Arg Ile Leu Gly Gly Asn Glu Pro Gly Glu Pro Ile Tyr  
20 25 30  
Ile Gly His Ile Val Pro Leu Gly Ala Ala Asp Thr Asp Gly Arg Leu  
35 40 45  
Arg Ser Gly Asp Glu Leu Ile Cys Val Asp Gly Thr Pro Val Ile Gly  
50 55 60  
Lys Ser His Gln Leu Val Val Gln Leu Met Gln Gln Ala Ala Lys Gln  
65 70 75 80  
Gly His Val Asn Leu Thr Val Arg Arg Lys Val Val Phe Ala Val Pro  
85 90 95  
Lys Thr Glu Asn Ser Ser  
100

<210> 789  
<211> 112  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic polymer

<400> 789  
Gly Val Val Ser Thr Val Val Gln Pro Tyr Asp Val Glu Ile Arg Arg

1		5		10		15									
Gly	Glu	Asn	Glu	Gly	Phe	Gly	Phe	Val	Ile	Val	Ser	Ser	Val	Ser	Arg
		20						25					30		
Pro	Glu	Ala	Gly	Thr	Thr	Phe	Ala	Gly	Asn	Ala	Cys	Val	Ala	Met	Pro
		35					40					45			
His	Lys	Ile	Gly	Arg	Ile	Ile	Glu	Gly	Ser	Pro	Ala	Asp	Arg	Cys	Gly
	50					55					60				
Lys	Leu	Lys	Val	Gly	Asp	Arg	Ile	Leu	Ala	Val	Asn	Gly	Cys	Ser	Ile
65					70					75					80
Thr	Asn	Lys	Ser	His	Ser	Asp	Ile	Val	Asn	Leu	Ile	Lys	Glu	Ala	Gly
				85					90					95	
Asn	Thr	Val	Thr	Leu	Arg	Ile	Ile	Pro	Gly	Asp	Glu	Ser	Ser	Asn	Ala
			100					105					110		

<210> 790  
 <211> 91  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

<400> 790
Gln Ala Thr Gln Glu Gln Asp Phe Tyr Thr Val Glu Leu Glu Arg Gly
1 5 10 15
Ala Lys Gly Phe Gly Phe Ser Leu Arg Gly Gly Arg Glu Tyr Asn Met
20 25 30
Asp Leu Tyr Val Leu Arg Leu Ala Glu Asp Gly Pro Ala Glu Arg Cys
35 40 45
Gly Lys Met Arg Ile Gly Asp Glu Ile Leu Glu Ile Asn Gly Glu Thr
50 55 60
Thr Lys Asn Met Lys His Ser Arg Ala Ile Glu Leu Ile Lys Asn Gly
65 70 75 80
Gly Arg Arg Val Arg Leu Phe Leu Lys Arg Gly
85 90

<210> 791  
 <211> 100  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

<400> 791
Pro Ala Lys Met Glu Lys Glu Glu Thr Thr Arg Glu Leu Leu Leu Pro
1 5 10 15
Asn Trp Gln Gly Ser Gly Ser His Gly Leu Thr Ile Ala Gln Arg Asp
20 25 30
Asp Gly Val Phe Val Gln Glu Val Thr Gln Asn Ser Pro Ala Ala Arg
35 40 45
Thr Gly Val Val Lys Glu Gly Asp Gln Ile Val Gly Ala Thr Ile Tyr
50 55 60
Phe Asp Asn Leu Gln Ser Gly Glu Val Thr Gln Leu Leu Asn Thr Met
65 70 75 80
Gly His His Thr Val Gly Leu Lys Leu His Arg Lys Gly Asp Arg Ser
85 90 95
Pro Asn Ser Ser
100

<210> 792  
 <211> 97  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

<400> 792  
 Ser Glu Asn Cys Lys Val Phe Ile Glu Lys Gln Lys Gly Glu Ile Leu  
 1 5 10 15  
 Gly Val Val Ile Val Glu Ser Gly Trp Gly Ser Ile Leu Pro Thr Val  
 20 25 30  
 Ile Ile Ala Asn Met Met His Gly Gly Pro Ala Glu Lys Ser Gly Lys  
 35 40 45  
 Leu Asn Ile Gly Asp Gln Ile Met Ser Ile Asn Gly Thr Ser Leu Val  
 50 55 60  
 Gly Leu Pro Leu Ser Thr Cys Gln Ser Ile Ile Lys Gly Leu Lys Asn  
 65 70 75 80  
 Gln Ser Arg Val Lys Leu Asn Ile Val Arg Cys Pro Pro Val Asn Ser  
 85 90 95  
 Ser

<210> 793  
 <211> 92  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

<400> 793  
 Leu Arg Cys Pro Pro Val Thr Thr Val Leu Ile Arg Arg Pro Asp Leu  
 1 5 10 15  
 Arg Tyr Gln Leu Gly Phe Ser Val Gln Asn Gly Ile Ile Cys Ser Leu  
 20 25 30  
 Met Arg Gly Gly Ile Ala Glu Arg Gly Gly Val Arg Val Gly His Arg  
 35 40 45  
 Ile Ile Glu Ile Asn Gly Gln Ser Val Val Ala Thr Pro His Glu Lys  
 50 55 60  
 Ile Val His Ile Leu Ser Asn Ala Val Gly Glu Ile His Met Lys Thr  
 65 70 75 80  
 Met Pro Ala Ala Met Tyr Arg Leu Leu Asn Ser Ser  
 85 90

<210> 794  
 <211> 103  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

<400> 794  
 Leu Ser Asn Ser Asp Asn Cys Arg Glu Val His Leu Glu Lys Arg Arg  
 1 5 10 15  
 Gly Glu Gly Leu Gly Val Ala Leu Val Glu Ser Gly Trp Gly Ser Leu  
 20 25 30  
 Leu Pro Thr Ala Val Ile Ala Asn Leu Leu His Gly Gly Pro Ala Glu  
 35 40 45

Arg	Ser	Gly	Ala	Leu	Ser	Ile	Gly	Asp	Arg	Leu	Thr	Ala	Ile	Asn	Gly
50						55					60				
Thr	Ser	Leu	Val	Gly	Leu	Pro	Leu	Ala	Ala	Cys	Gln	Ala	Ala	Val	Arg
65					70					75					80
Glu	Thr	Lys	Ser	Gln	Thr	Ser	Val	Thr	Leu	Ser	Ile	Val	His	Cys	Pro
				85					90					95	
Pro	Val	Thr	Thr	Ala	Ile	Met									
				100											

<210> 795  
 <211> 92  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

Leu	Val	His	Cys	Pro	Pro	Val	Thr	Thr	Ala	Ile	Ile	His	Arg	Pro	His
1				5					10					15	
Ala	Arg	Glu	Gln	Leu	Gly	Phe	Cys	Val	Glu	Asp	Gly	Ile	Ile	Cys	Ser
			20					25					30		
Leu	Leu	Arg	Gly	Gly	Ile	Ala	Glu	Arg	Gly	Gly	Ile	Arg	Val	Gly	His
		35					40					45			
Arg	Ile	Ile	Glu	Ile	Asn	Gly	Gln	Ser	Val	Val	Ala	Thr	Pro	His	Ala
	50				55						60				
Arg	Ile	Ile	Glu	Leu	Leu	Thr	Glu	Ala	Tyr	Gly	Glu	Val	His	Ile	Lys
65					70					75					80
Thr	Met	Pro	Ala	Ala	Thr	Tyr	Arg	Leu	Leu	Thr	Gly				
				85					90						

<210> 796  
 <211> 86  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

Arg	Lys	Val	Arg	Leu	Ile	Gln	Phe	Glu	Lys	Val	Thr	Glu	Glu	Pro	Met
1				5					10					15	
Gly	Ile	Thr	Leu	Lys	Leu	Asn	Glu	Lys	Gln	Ser	Cys	Thr	Val	Ala	Arg
			20					25					30		
Ile	Leu	His	Gly	Gly	Met	Ile	His	Arg	Gln	Gly	Ser	Leu	His	Val	Gly
		35					40					45			
Asp	Glu	Ile	Leu	Glu	Ile	Asn	Gly	Thr	Asn	Val	Thr	Asn	His	Ser	Val
	50					55					60				
Asp	Gln	Leu	Gln	Lys	Ala	Met	Lys	Glu	Thr	Lys	Gly	Met	Ile	Ser	Leu
65					70					75					80
Lys	Val	Ile	Pro	Asn	Gln										
				85											

<210> 797  
 <211> 89  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

<400> 797

Pro	Val	Pro	Pro	Asp	Ala	Val	Arg	Met	Val	Gly	Ile	Arg	Lys	Thr	Ala
1				5					10					15	
Gly	Glu	His	Leu	Gly	Val	Thr	Phe	Arg	Val	Glu	Gly	Gly	Glu	Leu	Val
			20					25					30		
Ile	Ala	Arg	Ile	Leu	His	Gly	Gly	Met	Val	Ala	Gln	Gln	Gly	Leu	Leu
			35				40					45			
His	Val	Gly	Asp	Ile	Ile	Lys	Glu	Val	Asn	Gly	Gln	Pro	Val	Gly	Ser
	50				55					60					
Asp	Pro	Arg	Ala	Leu	Gln	Glu	Leu	Leu	Arg	Asn	Ala	Ser	Gly	Ser	Val
65				70					75						80
Ile	Leu	Lys	Ile	Leu	Pro	Asn	Tyr	Gln							
				85											

<210> 798

<211> 99

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 798

Gln	Gly	Arg	His	Val	Glu	Val	Phe	Glu	Leu	Leu	Lys	Pro	Pro	Ser	Gly
1				5				10						15	
Gly	Leu	Gly	Phe	Ser	Val	Val	Gly	Leu	Arg	Ser	Glu	Asn	Arg	Gly	Glu
			20					25					30		
Leu	Gly	Ile	Phe	Val	Gln	Glu	Ile	Gln	Glu	Gly	Ser	Val	Ala	His	Arg
			35				40					45			
Asp	Gly	Arg	Leu	Lys	Glu	Thr	Asp	Gln	Ile	Leu	Ala	Ile	Asn	Gly	Gln
	50					55				60					
Ala	Leu	Asp	Gln	Thr	Ile	Thr	His	Gln	Gln	Ala	Ile	Ser	Ile	Leu	Gln
65					70					75					80
Lys	Ala	Lys	Asp	Thr	Val	Gln	Leu	Val	Ile	Ala	Arg	Gly	Ser	Leu	Pro
				85					90					95	
Gln	Leu	Val													

<210> 799

<211> 97

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 799

Pro	Val	His	Trp	Gln	His	Met	Glu	Thr	Ile	Glu	Leu	Val	Asn	Asp	Gly
1				5					10					15	
Ser	Gly	Leu	Gly	Phe	Gly	Ile	Ile	Gly	Gly	Lys	Ala	Thr	Gly	Val	Ile
			20					25					30		
Val	Lys	Thr	Ile	Leu	Pro	Gly	Gly	Val	Ala	Asp	Gln	His	Gly	Arg	Leu
			35				40					45			
Cys	Ser	Gly	Asp	His	Ile	Leu	Lys	Ile	Gly	Asp	Thr	Asp	Leu	Ala	Gly
	50					55				60					
Met	Ser	Ser	Glu	Gln	Val	Ala	Gln	Val	Leu	Arg	Gln	Cys	Gly	Asn	Arg
65					70					75					80
Val	Lys	Leu	Met	Ile	Ala	Arg	Gly	Ala	Ile	Glu	Glu	Arg	Thr	Ala	Pro
				85					90					95	
Thr															

<210> 800  
 <211> 98  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

<400> 800  
 Gln Glu Ser Glu Thr Phe Asp Val Glu Leu Thr Lys Asn Val Gln Gly  
 1 5 10 15  
 Leu Gly Ile Thr Ile Ala Gly Tyr Ile Gly Asp Lys Lys Leu Glu Pro  
 20 25 30  
 Ser Gly Ile Phe Val Lys Ser Ile Thr Lys Ser Ser Ala Val Glu His  
 35 40 45  
 Asp Gly Arg Ile Gln Ile Gly Asp Gln Ile Ile Ala Val Asp Gly Thr  
 50 55 60  
 Asn Leu Gln Gly Phe Thr Asn Gln Gln Ala Val Glu Val Leu Arg His  
 65 70 75 80  
 Thr Gly Gln Thr Val Leu Leu Thr Leu Met Arg Arg Gly Met Lys Gln  
 85 90 95  
 Glu Ala

<210> 801  
 <211> 92  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

<400> 801  
 Leu Asn Tyr Glu Ile Val Val Ala His Val Ser Lys Phe Ser Glu Asn  
 1 5 10 15  
 Ser Gly Leu Gly Ile Ser Leu Glu Ala Thr Val Gly His His Phe Ile  
 20 25 30  
 Arg Ser Val Leu Pro Glu Gly Pro Val Gly His Ser Gly Lys Leu Phe  
 35 40 45  
 Ser Gly Asp Glu Leu Leu Glu Val Asn Gly Ile Thr Leu Leu Gly Glu  
 50 55 60  
 Asn His Gln Asp Val Val Asn Ile Leu Lys Glu Leu Pro Ile Glu Val  
 65 70 75 80  
 Thr Met Val Cys Cys Arg Arg Thr Val Pro Pro Thr  
 85 90

<210> 802  
 <211> 100  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

<400> 802  
 Trp Glu Ala Gly Ile Gln His Ile Glu Leu Glu Lys Gly Ser Lys Gly  
 1 5 10 15  
 Leu Gly Phe Ser Ile Leu Asp Tyr Gln Asp Pro Ile Asp Pro Ala Ser

			20					25					30				
Thr	Val	Ile	Ile	Ile	Arg	Ser	Leu	Val	Pro	Gly	Gly	Ile	Ala	Glu	Lys		
		35					40					45					
Asp	Gly	Arg	Leu	Leu	Pro	Gly	Asp	Arg	Leu	Met	Phe	Val	Asn	Asp	Val		
	50					55					60						
Asn	Leu	Glu	Asn	Ser	Ser	Leu	Glu	Glu	Ala	Val	Glu	Ala	Leu	Lys	Gly		
65					70				75					80			
Ala	Pro	Ser	Gly	Thr	Val	Arg	Ile	Gly	Val	Ala	Lys	Pro	Leu	Pro	Leu		
				85				90						95			
Ser	Pro	Glu	Glu														
			100														

<210> 803  
 <211> 99  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

Arg	Asn	Val	Ser	Lys	Glu	Ser	Phe	Glu	Arg	Thr	Ile	Asn	Ile	Ala	Lys		
1				5				10						15			
Gly	Asn	Ser	Ser	Leu	Gly	Met	Thr	Val	Ser	Ala	Asn	Lys	Asp	Gly	Leu		
			20				25					30					
Gly	Met	Ile	Val	Arg	Ser	Ile	Ile	His	Gly	Gly	Ala	Ile	Ser	Arg	Asp		
	35					40					45						
Gly	Arg	Ile	Ala	Ile	Gly	Asp	Cys	Ile	Leu	Ser	Ile	Asn	Glu	Glu	Ser		
	50				55					60							
Thr	Ile	Ser	Val	Thr	Asn	Ala	Gln	Ala	Arg	Ala	Met	Leu	Arg	Arg	His		
65				70				75						80			
Ser	Leu	Ile	Gly	Pro	Asp	Ile	Lys	Ile	Thr	Tyr	Val	Pro	Ala	Glu	His		
				85				90						95			
Leu	Glu	Glu															

<210> 804  
 <211> 112  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

Leu	Asn	Trp	Asn	Gln	Pro	Arg	Arg	Val	Glu	Leu	Trp	Arg	Glu	Pro	Ser		
1				5				10						15			
Lys	Ser	Leu	Gly	Ile	Ser	Ile	Val	Gly	Gly	Arg	Gly	Met	Gly	Ser	Arg		
			20				25					30					
Leu	Ser	Asn	Gly	Glu	Val	Met	Arg	Gly	Ile	Phe	Ile	Lys	His	Val	Leu		
	35					40					45						
Glu	Asp	Ser	Pro	Ala	Gly	Lys	Asn	Gly	Thr	Leu	Lys	Pro	Gly	Asp	Arg		
	50				55			60									
Ile	Val	Glu	Val	Asp	Gly	Met	Asp	Leu	Arg	Asp	Ala	Ser	His	Glu	Gln		
65				70				75						80			
Ala	Val	Glu	Ala	Ile	Arg	Lys	Ala	Gly	Asn	Pro	Val	Val	Phe	Met	Val		
				85				90						95			
Gln	Ser	Ile	Ile	Asn	Arg	Pro	Arg	Lys	Ser	Pro	Leu	Pro	Ser	Leu	Leu		
			100					105					110				

<210> 805  
 <211> 95  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

<400> 805  
 Leu Thr Gly Glu Leu His Met Ile Glu Leu Glu Lys Gly His Ser Gly  
 1 5 10 15  
 Leu Gly Leu Ser Leu Ala Gly Asn Lys Asp Arg Ser Arg Met Ser Val  
 20 25 30  
 Phe Ile Val Gly Ile Asp Pro Asn Gly Ala Ala Gly Lys Asp Gly Arg  
 35 40 45  
 Leu Gln Ile Ala Asp Glu Leu Leu Glu Ile Asn Gly Gln Ile Leu Tyr  
 50 55 60  
 Gly Arg Ser His Gln Asn Ala Ser Ser Ile Ile Lys Cys Ala Pro Ser  
 65 70 75 80  
 Lys Val Lys Ile Ile Phe Ile Arg Asn Lys Asp Ala Val Asn Gln  
 85 90 95

<210> 806  
 <211> 94  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

<400> 806  
 Leu Ser Ser Phe Lys Asn Val Gln His Leu Glu Leu Pro Lys Asp Gln  
 1 5 10 15  
 Gly Gly Leu Gly Ile Ala Ile Ser Glu Glu Asp Thr Leu Ser Gly Val  
 20 25 30  
 Ile Ile Lys Ser Leu Thr Glu His Gly Val Ala Ala Thr Asp Gly Arg  
 35 40 45  
 Leu Lys Val Gly Asp Gln Ile Leu Ala Val Asp Asp Glu Ile Val Val  
 50 55 60  
 Gly Tyr Pro Ile Glu Lys Phe Ile Ser Leu Leu Lys Thr Ala Lys Met  
 65 70 75 80  
 Thr Val Lys Leu Thr Ile His Ala Glu Asn Pro Asp Ser Gln  
 85 90

<210> 807  
 <211> 95  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

<400> 807  
 Leu Pro Gly Cys Glu Thr Thr Ile Glu Ile Ser Lys Gly Arg Thr Gly  
 1 5 10 15  
 Leu Gly Leu Ser Ile Val Gly Gly Ser Asp Thr Leu Leu Gly Ala Ile  
 20 25 30  
 Ile Ile His Glu Val Tyr Glu Glu Gly Ala Ala Cys Lys Asp Gly Arg  
 35 40 45  
 Leu Trp Ala Gly Asp Gln Ile Leu Glu Val Asn Gly Ile Asp Leu Arg  
 50 55 60



Lys	Ala	Thr	His	Asp	Glu	Ala	Ile	Asn	Val	Leu	Arg	Gln	Thr	Pro	Gln
65					70					75					80
Arg	Val	Arg	Leu	Thr	Leu	Tyr	Arg	Asp	Glu	Ala	Pro	Tyr	Lys	Glu	
				85					90					95	

<210> 808  
 <211> 98  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

<400> 808

Lys	Glu	Glu	Glu	Val	Cys	Asp	Thr	Leu	Thr	Ile	Glu	Leu	Gln	Lys	Lys
1				5					10					15	
Pro	Gly	Lys	Gly	Leu	Gly	Leu	Ser	Ile	Val	Gly	Lys	Arg	Asn	Asp	Thr
			20					25					30		
Gly	Val	Phe	Val	Ser	Asp	Ile	Val	Lys	Gly	Gly	Ile	Ala	Asp	Ala	Asp
		35				40						45			
Gly	Arg	Leu	Met	Gln	Gly	Asp	Gln	Ile	Leu	Met	Val	Asn	Gly	Glu	Asp
	50					55					60				
Val	Arg	Asn	Ala	Thr	Gln	Glu	Ala	Val	Ala	Ala	Leu	Leu	Lys	Cys	Ser
65					70				75						80
Leu	Gly	Thr	Val	Thr	Leu	Glu	Val	Gly	Arg	Ile	Lys	Ala	Gly	Pro	Phe
				85				90						95	

His Ser

<210> 809  
 <211> 96  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

<400> 809

Leu	Gln	Gly	Leu	Arg	Thr	Val	Glu	Met	Lys	Lys	Gly	Pro	Thr	Asp	Ser
1				5					10					15	
Leu	Gly	Ile	Ser	Ile	Ala	Gly	Gly	Val	Gly	Ser	Pro	Leu	Gly	Asp	Val
			20					25					30		
Pro	Ile	Phe	Ile	Ala	Met	Met	His	Pro	Thr	Gly	Val	Ala	Ala	Gln	Thr
		35				40						45			
Gln	Lys	Leu	Arg	Val	Gly	Asp	Arg	Ile	Val	Thr	Ile	Cys	Gly	Thr	Ser
	50					55					60				
Thr	Glu	Gly	Met	Thr	His	Thr	Gln	Ala	Val	Asn	Leu	Leu	Lys	Asn	Ala
65					70				75						80
Ser	Gly	Ser	Ile	Glu	Met	Gln	Val	Val	Ala	Gly	Gly	Asp	Val	Ser	Val
				85				90						95	

<210> 810  
 <211> 91  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

<400> 810

Leu	Gly	Pro	Pro	Gln	Cys	Lys	Ser	Ile	Thr	Leu	Glu	Arg	Gly	Pro	Asp
1				5					10					15	
Gly	Leu	Gly	Phe	Ser	Ile	Val	Gly	Gly	Tyr	Gly	Ser	Pro	His	Gly	Asp
			20					25					30		
Leu	Pro	Ile	Tyr	Val	Lys	Thr	Val	Phe	Ala	Lys	Gly	Ala	Ala	Ser	Glu
			35				40					45			
Asp	Gly	Arg	Leu	Lys	Arg	Gly	Asp	Gln	Ile	Ile	Ala	Val	Asn	Gly	Gln
	50					55					60				
Ser	Leu	Glu	Gly	Val	Thr	His	Glu	Glu	Ala	Val	Ala	Ile	Leu	Lys	Arg
65					70					75					80
Thr	Lys	Gly	Thr	Val	Thr	Leu	Met	Val	Leu	Ser					
				85					90						

<210> 811  
 <211> 93  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

Ile	Gln	Tyr	Glu	Glu	Ile	Val	Leu	Glu	Arg	Gly	Asn	Ser	Gly	Leu	Gly
1				5					10					15	
Phe	Ser	Ile	Ala	Gly	Gly	Ile	Asp	Asn	Pro	His	Val	Pro	Asp	Asp	Pro
			20					25					30		
Gly	Ile	Phe	Ile	Thr	Lys	Ile	Ile	Pro	Gly	Gly	Ala	Ala	Ala	Met	Asp
		35					40					45			
Gly	Arg	Leu	Gly	Val	Asn	Asp	Cys	Val	Leu	Arg	Val	Asn	Glu	Val	Glu
	50					55					60				
Val	Ser	Glu	Val	Val	His	Ser	Arg	Ala	Val	Glu	Ala	Leu	Lys	Glu	Ala
65					70					75					80
Gly	Pro	Val	Val	Arg	Leu	Val	Val	Arg	Arg	Arg	Gln	Asn			
				85					90						

<210> 812  
 <211> 90  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

Ile	Thr	Leu	Leu	Lys	Gly	Pro	Lys	Gly	Leu	Gly	Phe	Ser	Ile	Ala	Gly
1				5					10					15	
Gly	Ile	Gly	Asn	Gln	His	Ile	Pro	Gly	Asp	Asn	Ser	Ile	Tyr	Ile	Thr
			20					25					30		
Lys	Ile	Ile	Glu	Gly	Gly	Ala	Ala	Gln	Lys	Asp	Gly	Arg	Leu	Gln	Ile
		35					40					45			
Gly	Asp	Arg	Leu	Leu	Ala	Val	Asn	Asn	Thr	Asn	Leu	Gln	Asp	Val	Arg
	50					55					60				
His	Glu	Glu	Ala	Val	Ala	Ser	Leu	Lys	Asn	Thr	Ser	Asp	Met	Val	Tyr
65					70					75					80
Leu	Lys	Val	Ala	Lys	Pro	Gly	Ser	Leu	Glu						
				85					90						

<210> 813  
 <211> 119  
 <212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 813

```
Ile Leu Leu His Lys Gly Ser Thr Gly Leu Gly Phe Asn Ile Val Gly
 1          5          10          15
Gly Glu Asp Gly Glu Gly Ile Phe Val Ser Phe Ile Leu Ala Gly Gly
 20          25          30
Pro Ala Asp Leu Ser Gly Glu Leu Arg Arg Gly Asp Arg Ile Leu Ser
 35          40          45
Val Asn Gly Val Asn Leu Arg Asn Ala Thr His Glu Gln Ala Ala Ala
 50          55          60
Ala Leu Lys Arg Ala Gly Gln Ser Val Thr Ile Val Ala Gln Tyr Arg
 65          70          75          80
Pro Glu Glu Tyr Ser Arg Phe Glu Ser Lys Ile His Asp Leu Arg Glu
 85          90          95
Gln Met Met Asn Ser Ser Met Ser Ser Gly Ser Gly Ser Leu Arg Thr
 100          105          110
Ser Glu Lys Arg Ser Leu Glu
 115
```

<210> 814

<211> 111

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 814

```
Cys Val Glu Arg Leu Glu Leu Phe Pro Val Glu Leu Glu Lys Asp Ser
 1          5          10          15
Glu Gly Leu Gly Ile Ser Ile Ile Gly Met Gly Ala Gly Ala Asp Met
 20          25          30
Gly Leu Glu Lys Leu Gly Ile Phe Val Lys Thr Val Thr Glu Gly Gly
 35          40          45
Ala Ala His Arg Asp Gly Arg Ile Gln Val Asn Asp Leu Leu Val Glu
 50          55          60
Val Asp Gly Thr Ser Leu Val Gly Val Thr Gln Ser Phe Ala Ala Ser
 65          70          75          80
Val Leu Arg Asn Thr Lys Gly Arg Val Arg Phe Met Ile Gly Arg Glu
 85          90          95
Arg Pro Gly Glu Gln Ser Glu Val Ala Gln Arg Ile His Arg Asp
 100          105          110
```

<210> 815

<211> 90

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 815

```
Ile Gln Pro Asn Val Ile Ser Val Arg Leu Phe Lys Arg Lys Val Gly
 1          5          10          15
Gly Leu Gly Phe Leu Val Lys Glu Arg Val Ser Lys Pro Pro Val Ile
 20          25          30
Ile Ser Asp Leu Ile Arg Gly Gly Ala Ala Glu Gln Ser Gly Leu Ile
```

		35					40				45						
Gln	Ala	Gly	Asp	Ile	Ile	Leu	Ala	Val	Asn	Gly	Arg	Pro	Leu	Val	Asp		
	50					55					60						
Leu	Ser	Tyr	Asp	Ser	Ala	Leu	Glu	Val	Leu	Arg	Gly	Ile	Ala	Ser	Glu		
65					70					75					80		
Thr	His	Val	Val	Leu	Ile	Leu	Arg	Gly	Pro								
				85					90								

<210> 816  
 <211> 107  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

Gln	Ala	Asn	Ser	Asp	Glu	Ser	Asp	Ile	Ile	His	Ser	Val	Arg	Val	Glu		
1				5					10					15			
Lys	Ser	Pro	Ala	Gly	Arg	Leu	Gly	Phe	Ser	Val	Arg	Gly	Gly	Ser	Glu		
			20					25					30				
His	Gly	Leu	Gly	Ile	Phe	Val	Ser	Lys	Val	Glu	Glu	Gly	Ser	Ser	Ala		
		35					40					45					
Glu	Arg	Ala	Gly	Leu	Cys	Val	Gly	Asp	Lys	Ile	Thr	Glu	Val	Asn	Gly		
	50				55					60							
Leu	Ser	Leu	Glu	Ser	Thr	Thr	Met	Gly	Ser	Ala	Val	Lys	Val	Leu	Thr		
65					70					75					80		
Ser	Ser	Ser	Arg	Leu	His	Met	Met	Val	Arg	Arg	Met	Gly	Arg	Val	Pro		
				85					90					95			
Gly	Ile	Lys	Phe	Ser	Lys	Glu	Lys	Asn	Ser	Ser							
			100					105									

<210> 817  
 <211> 106  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

Pro	Ser	Asp	Thr	Ser	Ser	Glu	Asp	Gly	Val	Arg	Arg	Ile	Val	His	Leu		
1				5					10					15			
Tyr	Thr	Thr	Ser	Asp	Asp	Phe	Cys	Leu	Gly	Phe	Asn	Ile	Arg	Gly	Gly		
			20					25					30				
Lys	Glu	Phe	Gly	Leu	Gly	Ile	Tyr	Val	Ser	Lys	Val	Asp	His	Gly	Gly		
		35					40					45					
Leu	Ala	Glu	Glu	Asn	Gly	Ile	Lys	Val	Gly	Asp	Gln	Val	Leu	Ala	Ala		
	50				55						60						
Asn	Gly	Val	Arg	Phe	Asp	Asp	Ile	Ser	His	Ser	Gln	Ala	Val	Glu	Val		
65					70					75					80		
Leu	Lys	Gly	Gln	Thr	His	Ile	Met	Leu	Thr	Ile	Lys	Glu	Thr	Gly	Arg		
				85					90					95			
Tyr	Pro	Ala	Tyr	Lys	Glu	Met	Asn	Ser	Ser								
			100					105									

<210> 818  
 <211> 115  
 <212> PRT  
 <213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 818

Lys	Ile	Lys	Lys	Phe	Leu	Thr	Glu	Ser	His	Asp	Arg	Gln	Ala	Lys	Gly	
1				5					10					15		
Lys	Ala	Ile	Thr	Lys	Lys	Lys	Tyr	Ile	Gly	Ile	Arg	Met	Met	Ser	Leu	
			20					25					30			
Thr	Ser	Ser	Lys	Ala	Lys	Glu	Leu	Lys	Asp	Arg	His	Arg	Asp	Phe	Pro	
		35				40					45					
Asp	Val	Ile	Ser	Gly	Ala	Tyr	Ile	Ile	Glu	Val	Ile	Pro	Asp	Thr	Pro	
	50					55					60					
Ala	Glu	Ala	Gly	Gly	Leu	Lys	Glu	Asn	Asp	Val	Ile	Ile	Ser	Ile	Asn	
65					70					75					80	
Gly	Gln	Ser	Val	Val	Ser	Ala	Asn	Asp	Val	Ser	Asp	Val	Ile	Lys	Arg	
				85					90					95		
Glu	Ser	Thr	Leu	Asn	Met	Val	Val	Arg	Arg	Gly	Asn	Glu	Asp	Ile	Met	
			100					105					110			
Ile	Thr	Val														
		115														

<210> 819

<211> 100

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 819

Pro	Asp	Gly	Glu	Ile	Thr	Ser	Ile	Lys	Ile	Asn	Arg	Val	Asp	Pro	Ser	
1				5					10					15		
Glu	Ser	Leu	Ser	Ile	Arg	Leu	Val	Gly	Gly	Ser	Glu	Thr	Pro	Leu	Val	
			20					25					30			
His	Ile	Ile	Ile	Gln	His	Ile	Tyr	Arg	Asp	Gly	Val	Ile	Ala	Arg	Asp	
		35					40				45					
Gly	Arg	Leu	Leu	Pro	Gly	Asp	Ile	Ile	Leu	Lys	Val	Asn	Gly	Met	Asp	
	50					55					60					
Ile	Ser	Asn	Val	Pro	His	Asn	Tyr	Ala	Val	Arg	Leu	Leu	Arg	Gln	Pro	
65					70					75					80	
Cys	Gln	Val	Leu	Trp	Leu	Thr	Val	Met	Arg	Glu	Gln	Lys	Phe	Arg	Ser	
				85					90					95		
Arg	Asn	Ser	Ser													
			100													

<210> 820

<211> 101

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 820

His	Arg	Pro	Arg	Asp	Asp	Ser	Phe	His	Val	Ile	Leu	Asn	Lys	Ser	Ser	
1				5					10					15		
Pro	Glu	Glu	Gln	Leu	Gly	Ile	Lys	Leu	Val	Arg	Lys	Val	Asp	Glu	Pro	
			20					25					30			
Gly	Val	Phe	Ile	Phe	Asn	Val	Leu	Asp	Gly	Gly	Val	Ala	Tyr	Arg	His	
		35					40					45				

Gly	Gln	Leu	Glu	Glu	Asn	Asp	Arg	Val	Leu	Ala	Ile	Asn	Gly	His	Asp
50					55						60				
Leu	Arg	Tyr	Gly	Ser	Pro	Glu	Ser	Ala	Ala	His	Leu	Ile	Gln	Ala	Ser
65					70					75					80
Glu	Arg	Arg	Val	His	Leu	Val	Val	Ser	Arg	Gln	Val	Arg	Gln	Arg	Ser
				85					90					95	
Pro	Glu	Asn	Ser	Ser											
				100											

<210> 821  
 <211> 104  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

Pro	Thr	Ile	Thr	Cys	His	Glu	Lys	Val	Val	Asn	Ile	Gln	Lys	Asp	Pro
1				5					10					15	
Gly	Glu	Ser	Leu	Gly	Met	Thr	Val	Ala	Gly	Gly	Ala	Ser	His	Arg	Glu
			20					25					30		
Trp	Asp	Leu	Pro	Ile	Tyr	Val	Ile	Ser	Val	Glu	Pro	Gly	Gly	Val	Ile
		35				40						45			
Ser	Arg	Asp	Gly	Arg	Ile	Lys	Thr	Gly	Asp	Ile	Leu	Leu	Asn	Val	Asp
	50					55				60					
Gly	Val	Glu	Leu	Thr	Glu	Val	Ser	Arg	Ser	Glu	Ala	Val	Ala	Leu	Leu
65					70					75					80
Lys	Arg	Thr	Ser	Ser	Ser	Ile	Val	Leu	Lys	Ala	Leu	Glu	Val	Lys	Glu
				85					90					95	
Tyr	Glu	Pro	Gln	Glu	Phe	Ile	Val								
				100											

<210> 822  
 <211> 99  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

Pro	Arg	Cys	Leu	Tyr	Asn	Cys	Lys	Asp	Ile	Val	Leu	Arg	Arg	Asn	Thr
1				5					10					15	
Ala	Gly	Ser	Leu	Gly	Phe	Cys	Ile	Val	Gly	Gly	Tyr	Glu	Glu	Tyr	Asn
			20					25					30		
Gly	Asn	Lys	Pro	Phe	Phe	Ile	Lys	Ser	Ile	Val	Glu	Gly	Thr	Pro	Ala
		35					40					45			
Tyr	Asn	Asp	Gly	Arg	Ile	Arg	Cys	Gly	Asp	Ile	Leu	Leu	Ala	Val	Asn
	50					55				60					
Gly	Arg	Ser	Thr	Ser	Gly	Met	Ile	His	Ala	Cys	Leu	Ala	Arg	Leu	Leu
65					70					75					80
Lys	Glu	Leu	Lys	Gly	Arg	Ile	Thr	Leu	Thr	Ile	Val	Ser	Trp	Pro	Gly
				85					90					95	
Thr	Phe	Leu													

<210> 823  
 <211> 101  
 <212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 823

```
Leu Leu Thr Glu Glu Glu Ile Asn Leu Thr Arg Gly Pro Ser Gly Leu
 1          5          10          15
Gly Phe Asn Ile Val Gly Gly Thr Asp Gln Gln Tyr Val Ser Asn Asp
          20          25          30
Ser Gly Ile Tyr Val Ser Arg Ile Lys Glu Asn Gly Ala Ala Ala Leu
          35          40          45
Asp Gly Arg Leu Gln Glu Gly Asp Lys Ile Leu Ser Val Asn Gly Gln
          50          55          60
Asp Leu Lys Asn Leu Leu His Gln Asp Ala Val Asp Leu Phe Arg Asn
          65          70          75          80
Ala Gly Tyr Ala Val Ser Leu Arg Val Gln His Arg Leu Gln Val Gln
          85          90          95
Asn Gly Ile His Ser
          100
```

<210> 824

<211> 94

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 824

```
Pro Val Asp Ala Ile Arg Ile Leu Gly Ile His Lys Arg Ala Gly Glu
 1          5          10          15
Pro Leu Gly Val Thr Phe Arg Val Glu Asn Asn Asp Leu Val Ile Ala
          20          25          30
Arg Ile Leu His Gly Gly Met Ile Asp Arg Gln Gly Leu Leu His Val
          35          40          45
Gly Asp Ile Ile Lys Glu Val Asn Gly His Glu Val Gly Asn Asn Pro
          50          55          60
Lys Glu Leu Gln Glu Leu Leu Lys Asn Ile Ser Gly Ser Val Thr Leu
          65          70          75          80
Lys Ile Leu Pro Ser Tyr Arg Asp Thr Ile Thr Pro Gln Gln
          85          90
```

<210> 825

<211> 93

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 825

```
Asp Asp Met Val Lys Leu Val Glu Val Pro Asn Asp Gly Gly Pro Leu
 1          5          10          15
Gly Ile His Val Val Pro Phe Ser Ala Arg Gly Gly Arg Thr Leu Gly
          20          25          30
Leu Leu Val Lys Arg Leu Glu Lys Gly Gly Lys Ala Glu His Glu Asn
          35          40          45
Leu Phe Arg Glu Asn Asp Cys Ile Val Arg Ile Asn Asp Gly Asp Leu
          50          55          60
Arg Asn Arg Arg Phe Glu Gln Ala Gln His Met Phe Arg Gln Ala Met
```

80

<220>  
<223> Synthetic polymer

```
<210> 827
<211> 103
<212> PRT
<213> Artificial Sequence
```

<220>  
<223> Synthetic polymer

```
<210> 828
<211> 102
<212> PRT
<213> Artificial Sequence
```

<220>  
<223> Synthetic polymer

<400> 828  
Leu Pro Glu Thr His Arg Arg Val Arg Leu His Lys His Gly Ser Asp



1	5	10	15
Arg Pro Leu Gly Phe Tyr Ile Arg Asp Gly Met Ser Val Arg Val Ala			
20	25	30	
Pro Gln Gly Leu Glu Arg Val Pro Gly Ile Phe Ile Ser Arg Leu Val			
35	40	45	
Arg Gly Gly Leu Ala Glu Ser Thr Gly Leu Leu Ala Val Ser Asp Glu			
50	55	60	
Ile Leu Glu Val Asn Gly Ile Glu Val Ala Gly Lys Thr Leu Asp Gln			
65	70	75	80
Val Thr Asp Met Met Val Ala Asn Ser His Asn Leu Ile Val Thr Val			
85	90	95	
Lys Pro Ala Asn Gln Arg			
100			

<210> 829  
 <211> 111  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

<400> 829
Ile Asp Val Asp Leu Val Pro Glu Thr His Arg Arg Val Arg Leu His
1 5 10 15
Arg His Gly Cys Glu Lys Pro Leu Gly Phe Tyr Ile Arg Asp Gly Ala
20 25 30
Ser Val Arg Val Thr Pro His Gly Leu Glu Lys Val Pro Gly Ile Phe
35 40 45
Ile Ser Arg Met Val Pro Gly Gly Leu Ala Glu Ser Thr Gly Leu Leu
50 55 60
Ala Val Asn Asp Glu Val Leu Glu Val Asn Gly Ile Glu Val Ala Gly
65 70 75 80
Lys Thr Leu Asp Gln Val Thr Asp Met Met Ile Ala Asn Ser His Asn
85 90 95
Leu Ile Val Thr Val Lys Pro Ala Asn Gln Arg Asn Asn Val Val
100 105 110

<210> 830  
 <211> 100  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

<400> 830
Arg Ser Arg Lys Leu Lys Glu Val Arg Leu Asp Arg Leu His Pro Glu
1 5 10 15
Gly Leu Gly Leu Ser Val Arg Gly Gly Leu Glu Phe Gly Cys Gly Leu
20 25 30
Phe Ile Ser His Leu Ile Lys Gly Gly Gln Ala Asp Ser Val Gly Leu
35 40 45
Gln Val Gly Asp Glu Ile Val Arg Ile Asn Gly Tyr Ser Ile Ser Ser
50 55 60
Cys Thr His Glu Glu Val Ile Asn Leu Ile Arg Thr Lys Lys Thr Val
65 70 75 80
Ser Ile Lys Val Arg His Ile Gly Leu Ile Pro Val Lys Ser Ser Pro
85 90 95
Asp Glu Phe His
100

<210> 831  
 <211> 102  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

<400> 831  
 Ile Pro Gly Asn Arg Glu Asn Lys Glu Lys Lys Val Phe Ile Ser Leu  
 1 5 10 15  
 Val Gly Ser Arg Gly Leu Gly Cys Ser Ile Ser Ser Gly Pro Ile Gln  
 20 25 30  
 Lys Pro Gly Ile Phe Ile Ser His Val Lys Pro Gly Ser Leu Ser Ala  
 35 40 45  
 Glu Val Gly Leu Glu Ile Gly Asp Gln Ile Val Glu Val Asn Gly Val  
 50 55 60  
 Asp Phe Ser Asn Leu Asp His Lys Glu Ala Val Asn Val Leu Lys Ser  
 65 70 75 80  
 Ser Arg Ser Leu Thr Ile Ser Ile Val Ala Ala Ala Gly Arg Glu Leu  
 85 90 95  
 Phe Met Thr Asp Glu Phe  
 100

<210> 832  
 <211> 103  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

<400> 832  
 Pro Glu Gln Ile Met Gly Lys Asp Val Arg Leu Leu Arg Ile Lys Lys  
 1 5 10 15  
 Glu Gly Ser Leu Asp Leu Ala Leu Glu Gly Gly Val Asp Ser Pro Ile  
 20 25 30  
 Gly Lys Val Val Val Ser Ala Val Tyr Glu Arg Gly Ala Ala Glu Arg  
 35 40 45  
 His Gly Gly Ile Val Lys Gly Asp Glu Ile Met Ala Ile Asn Gly Lys  
 50 55 60  
 Ile Val Thr Asp Tyr Thr Leu Ala Glu Ala Asp Ala Ala Leu Gln Lys  
 65 70 75 80  
 Ala Trp Asn Gln Gly Gly Asp Trp Ile Asp Leu Val Val Ala Val Cys  
 85 90 95  
 Pro Pro Lys Glu Tyr Asp Asp  
 100

<210> 833  
 <211> 103  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

<400> 833  
 Leu Thr Ser Thr Phe Asn Pro Arg Glu Cys Lys Leu Ser Lys Gln Glu  
 1 5 10 15

Gly	Gln	Asn	Tyr	Gly	Phe	Phe	Leu	Arg	Ile	Glu	Lys	Asp	Thr	Glu	Gly
		20						25					30		
His	Leu	Val	Arg	Val	Val	Glu	Lys	Cys	Ser	Pro	Ala	Glu	Lys	Ala	Gly
	35						40					45			
Leu	Gln	Asp	Gly	Asp	Arg	Val	Leu	Arg	Ile	Asn	Gly	Val	Phe	Val	Asp
	50					55					60				
Lys	Glu	Glu	His	Met	Gln	Val	Val	Asp	Leu	Val	Arg	Lys	Ser	Gly	Asn
65					70					75					80
Ser	Val	Thr	Leu	Leu	Val	Leu	Asp	Gly	Asp	Ser	Tyr	Glu	Lys	Ala	Gly
			85						90					95	
Ser	Pro	Gly	Ile	His	Arg	Asp									
			100												

<210> 834  
 <211> 92  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

Arg	Leu	Cys	Tyr	Leu	Val	Lys	Glu	Gly	Gly	Ser	Tyr	Gly	Phe	Ser	Leu
1				5					10					15	
Lys	Thr	Val	Gln	Gly	Lys	Lys	Gly	Val	Tyr	Met	Thr	Asp	Ile	Thr	Pro
		20					25					30			
Gln	Gly	Val	Ala	Met	Arg	Ala	Gly	Val	Leu	Ala	Asp	Asp	His	Leu	Ile
	35						40					45			
Glu	Val	Asn	Gly	Glu	Asn	Val	Glu	Asp	Ala	Ser	His	Glu	Glu	Val	Val
	50					55					60				
Glu	Lys	Val	Lys	Lys	Ser	Gly	Ser	Arg	Val	Met	Phe	Leu	Leu	Val	Asp
65					70					75					80
Lys	Glu	Thr	Asp	Lys	Arg	Glu	Phe	Ile	Val	Thr	Asp				
				85					90						

<210> 835  
 <211> 112  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

Gln	Phe	Lys	Arg	Glu	Thr	Ala	Ser	Leu	Lys	Leu	Leu	Pro	His	Gln	Pro
1				5					10					15	
Arg	Ile	Val	Glu	Met	Lys	Lys	Gly	Ser	Asn	Gly	Tyr	Gly	Phe	Tyr	Leu
		20					25					30			
Arg	Ala	Gly	Ser	Glu	Gln	Lys	Gly	Gln	Ile	Ile	Lys	Asp	Ile	Asp	Ser
	35						40					45			
Gly	Ser	Pro	Ala	Glu	Glu	Ala	Gly	Leu	Lys	Asn	Asn	Asp	Leu	Val	Val
	50					55					60				
Ala	Val	Asn	Gly	Glu	Ser	Val	Glu	Thr	Leu	Asp	His	Asp	Ser	Val	Val
65					70					75					80
Glu	Met	Ile	Arg	Lys	Gly	Gly	Asp	Gln	Thr	Ser	Leu	Leu	Val	Val	Asp
			85						90					95	
Lys	Glu	Thr	Asp	Asn	Met	Tyr	Arg	Leu	Ala	Glu	Phe	Ile	Val	Thr	Asp
			100					105					110		

<210> 836

<211> 95  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

<400> 836  
 Pro Asp Thr Thr Glu Glu Val Asp His Lys Pro Lys Leu Cys Arg Leu  
 1 5 10 15  
 Ala Lys Gly Glu Asn Gly Tyr Gly Phe His Leu Asn Ala Ile Arg Gly  
 20 25 30  
 Leu Pro Gly Ser Phe Ile Lys Glu Val Gln Lys Gly Gly Pro Ala Asp  
 35 40 45  
 Leu Ala Gly Leu Glu Asp Glu Asp Val Ile Ile Glu Val Asn Gly Val  
 50 55 60  
 Asn Val Leu Asp Glu Pro Tyr Glu Lys Val Val Asp Arg Ile Gln Ser  
 65 70 75 80  
 Ser Gly Lys Asn Val Thr Leu Leu Val Glx Gly Lys Asn Ser Ser  
 85 90 95

<210> 837  
 <211> 89  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

<400> 837  
 Pro Thr Val Pro Gly Lys Val Thr Leu Gln Lys Asp Ala Gln Asn Leu  
 1 5 10 15  
 Ile Gly Ile Ser Ile Gly Gly Gly Ala Gln Tyr Cys Pro Cys Leu Tyr  
 20 25 30  
 Ile Val Gln Val Phe Asp Asn Thr Pro Ala Ala Leu Asp Gly Thr Val  
 35 40 45  
 Ala Ala Gly Asp Glu Ile Thr Gly Val Asn Gly Arg Ser Ile Lys Gly  
 50 55 60  
 Lys Thr Lys Val Glu Val Ala Lys Met Ile Gln Glu Val Lys Gly Glu  
 65 70 75 80  
 Val Thr Ile His Tyr Asn Lys Leu Gln  
 85

<210> 838  
 <211> 98  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

<400> 838  
 Ser Gln Gly Val Gly Pro Ile Arg Lys Val Leu Leu Leu Lys Glu Asp  
 1 5 10 15  
 His Glu Gly Leu Gly Ile Ser Ile Thr Gly Gly Lys Glu His Gly Val  
 20 25 30  
 Pro Ile Leu Ile Ser Glu Ile His Pro Gly Gln Pro Ala Asp Arg Cys  
 35 40 45  
 Gly Gly Leu His Val Gly Asp Ala Ile Leu Ala Val Asn Gly Val Asn  
 50 55 60  
 Leu Arg Asp Thr Lys His Lys Glu Ala Val Thr Ile Leu Ser Gln Gln

65		70		75		80									
Arg	Gly	Glu	Ile	Glu	Phe	Glu	Val	Val	Tyr	Val	Ala	Pro	Glu	Val	Asp
		85							90					95	

Ser Asp

<210> 839  
 <211> 97  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

<400> 839  
 Ile His Val Thr Ile Leu His Lys Glu Glu Gly Ala Gly Leu Gly Phe  
 1 5 10 15  
 Ser Leu Ala Gly Gly Ala Asp Leu Glu Asn Lys Val Ile Thr Val His  
 20 25 30  
 Arg Val Phe Pro Asn Gly Leu Ala Ser Gln Glu Gly Thr Ile Gln Lys  
 35 40 45  
 Gly Asn Glu Val Leu Ser Ile Asn Gly Lys Ser Leu Lys Gly Thr Thr  
 50 55 60  
 His His Asp Ala Leu Ala Ile Leu Arg Gln Ala Arg Glu Pro Arg Gln  
 65 70 75 80  
 Ala Val Ile Val Thr Arg Lys Leu Thr Pro Glu Glu Phe Ile Val Thr  
 85 90 95  
 Asp

<210> 840  
 <211> 98  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

<400> 840  
 Thr Ala Glu Ala Thr Val Cys Thr Val Thr Leu Glu Lys Met Ser Ala  
 1 5 10 15  
 Gly Leu Gly Phe Ser Leu Glu Gly Gly Lys Gly Ser Leu His Gly Asp  
 20 25 30  
 Lys Pro Leu Thr Ile Asn Arg Ile Phe Lys Gly Ala Ala Ser Glu Gln  
 35 40 45  
 Ser Glu Thr Val Gln Pro Gly Asp Glu Ile Leu Gln Leu Gly Gly Thr  
 50 55 60  
 Ala Met Gln Gly Leu Thr Arg Phe Glu Ala Trp Asn Ile Ile Lys Ala  
 65 70 75 80  
 Leu Pro Asp Gly Pro Val Thr Ile Val Ile Arg Arg Lys Ser Leu Gln  
 85 90 95  
 Ser Lys

<210> 841  
 <211> 98  
 <212> PRT  
 <213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 841

Leu	Glu	Tyr	Glu	Ile	Thr	Leu	Glu	Arg	Gly	Asn	Ser	Gly	Leu	Gly	Phe
1				5					10					15	
Ser	Ile	Ala	Gly	Gly	Thr	Asp	Asn	Pro	His	Ile	Gly	Asp	Asp	Pro	Ser
		20					25						30		
Ile	Phe	Ile	Thr	Lys	Ile	Ile	Pro	Gly	Gly	Ala	Ala	Ala	Gln	Asp	Gly
		35					40					45			
Arg	Leu	Arg	Val	Asn	Asp	Ser	Ile	Leu	Phe	Val	Asn	Glu	Val	Asp	Val
	50					55					60				
Arg	Glu	Val	Thr	His	Ser	Ala	Ala	Val	Glu	Ala	Leu	Lys	Glu	Ala	Gly
65					70					75					80
Ser	Ile	Val	Arg	Leu	Tyr	Val	Met	Arg	Arg	Lys	Pro	Pro	Ala	Glu	Asn
				85					90					95	
Ser	Ser														

<210> 842

<211> 105

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 842

His	Val	Met	Arg	Arg	Lys	Pro	Pro	Ala	Glu	Lys	Val	Met	Glu	Ile	Lys
1				5					10					15	
Leu	Ile	Lys	Gly	Pro	Lys	Gly	Leu	Gly	Phe	Ser	Ile	Ala	Gly	Gly	Val
		20					25						30		
Gly	Asn	Gln	His	Ile	Pro	Gly	Asp	Asn	Ser	Ile	Tyr	Val	Thr	Lys	Ile
		35					40					45			
Ile	Glu	Gly	Gly	Ala	Ala	His	Lys	Asp	Gly	Arg	Leu	Gln	Ile	Gly	Asp
	50					55					60				
Lys	Ile	Leu	Ala	Val	Asn	Ser	Val	Gly	Leu	Glu	Asp	Val	Met	His	Glu
65					70					75					80
Asp	Ala	Val	Ala	Ala	Leu	Lys	Asn	Thr	Tyr	Asp	Val	Val	Tyr	Leu	Lys
				85					90					95	
Val	Ala	Lys	Pro	Ser	Asn	Ala	Tyr	Leu							
			100					105							

<210> 843

<211> 97

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 843

Arg	Glu	Asp	Ile	Pro	Arg	Glu	Pro	Arg	Arg	Ile	Val	Ile	His	Arg	Gly
1				5					10					15	
Ser	Thr	Gly	Leu	Gly	Phe	Asn	Ile	Val	Gly	Gly	Glu	Asp	Gly	Glu	Gly
		20					25						30		
Ile	Phe	Ile	Ser	Phe	Ile	Leu	Ala	Gly	Gly	Pro	Ala	Asp	Leu	Ser	Gly
		35					40					45			
Glu	Leu	Arg	Lys	Gly	Asp	Gln	Ile	Leu	Ser	Val	Asn	Gly	Val	Asp	Leu
	50					55					60				
Arg	Asn	Ala	Ser	His	Glu	Gln	Ala	Ala	Ile	Ala	Leu	Lys	Asn	Ala	Gly
65					70					75					80

Gln Thr Val Thr Ile Ile Ala Gln Tyr Lys Pro Glu Phe Ile Val Thr  
85 90 95

Asp

<210> 844

<211> 88

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 844

Leu Ile Arg Ile Thr Pro Asp Glu Asp Gly Lys Phe Gly Phe Asn Leu  
1 5 10 15  
Lys Gly Gly Val Asp Gln Lys Met Pro Leu Val Val Ser Arg Ile Asn  
20 25 30  
Pro Glu Ser Pro Ala Asp Thr Cys Ile Pro Lys Leu Asn Glu Gly Asp  
35 40 45  
Gln Ile Val Leu Ile Asn Gly Arg Asp Ile Ser Glu His Thr His Asp  
50 55 60  
Gln Val Val Met Phe Ile Lys Ala Ser Arg Glu Ser His Ser Arg Glu  
65 70 75 80  
Leu Ala Leu Val Ile Arg Arg Arg  
85

<210> 845

<211> 88

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 845

Ile Arg Met Lys Pro Asp Glu Asn Gly Arg Phe Gly Phe Asn Val Lys  
1 5 10 15  
Gly Gly Tyr Asp Gln Lys Met Pro Val Ile Val Ser Arg Val Ala Pro  
20 25 30  
Gly Thr Pro Ala Asp Leu Cys Val Pro Arg Leu Asn Glu Gly Asp Gln  
35 40 45  
Val Val Leu Ile Asn Gly Arg Asp Ile Ala Glu His Thr His Asp Gln  
50 55 60  
Val Val Leu Phe Ile Lys Ala Ser Cys Glu Arg His Ser Gly Glu Leu  
65 70 75 80  
Met Leu Leu Val Arg Pro Asn Ala  
85

<210> 846

<211> 106

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 846

Pro Glu Arg Glu Ile Thr Leu Val Asn Leu Lys Lys Asp Ala Lys Tyr  
1 5 10 15

Gly	Leu	Gly	Phe	Gln	Ile	Ile	Gly	Gly	Glu	Lys	Met	Gly	Arg	Leu	Asp	
			20					25					30			
Leu	Gly	Ile	Phe	Ile	Ser	Ser	Val	Ala	Pro	Gly	Gly	Pro	Ala	Asp	Phe	
		35					40					45				
His	Gly	Cys	Leu	Lys	Pro	Gly	Asp	Arg	Leu	Ile	Ser	Val	Asn	Ser	Val	
		50				55					60					
Ser	Leu	Glu	Gly	Val	Ser	His	His	Ala	Ala	Ile	Glu	Ile	Leu	Gln	Asn	
65					70					75					80	
Ala	Pro	Glu	Asp	Val	Thr	Leu	Val	Ile	Ser	Gln	Pro	Lys	Glu	Lys	Ile	
			85						90					95		
Ser	Lys	Val	Pro	Ser	Thr	Pro	Val	His	Leu							
			100					105								

<210> 847  
 <211> 95  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

Gly	Asp	Ile	Phe	Glu	Val	Glu	Leu	Ala	Lys	Asn	Asp	Asn	Ser	Leu	Gly	
1				5					10					15		
Ile	Ser	Val	Thr	Gly	Gly	Val	Asn	Thr	Ser	Val	Arg	His	Gly	Gly	Ile	
		20						25				30				
Tyr	Val	Lys	Ala	Val	Ile	Pro	Gln	Gly	Ala	Ala	Glu	Ser	Asp	Gly	Arg	
		35				40					45					
Ile	His	Lys	Gly	Asp	Arg	Val	Leu	Ala	Val	Asn	Gly	Val	Ser	Leu	Glu	
		50				55				60						
Gly	Ala	Thr	His	Lys	Gln	Ala	Val	Glu	Thr	Leu	Arg	Asn	Thr	Gly	Gln	
65				70					75						80	
Val	Val	His	Leu	Leu	Leu	Glu	Lys	Gly	Gln	Ser	Pro	Thr	Ser	Lys		
			85					90						95		

<210> 848  
 <211> 104  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

Thr	Glu	Glu	Asn	Thr	Phe	Glu	Val	Lys	Leu	Phe	Lys	Asn	Ser	Ser	Gly	
1				5					10					15		
Leu	Gly	Phe	Ser	Phe	Ser	Arg	Glu	Asp	Asn	Leu	Ile	Pro	Glu	Gln	Ile	
		20						25				30				
Asn	Ala	Ser	Ile	Val	Arg	Val	Lys	Lys	Leu	Phe	Ala	Gly	Gln	Pro	Ala	
		35				40					45					
Ala	Glu	Ser	Gly	Lys	Ile	Asp	Val	Gly	Asp	Val	Ile	Leu	Lys	Val	Asn	
		50				55				60						
Gly	Ala	Ser	Leu	Lys	Gly	Leu	Ser	Gln	Gln	Glu	Val	Ile	Ser	Ala	Leu	
65				70					75						80	
Arg	Gly	Thr	Ala	Pro	Glu	Val	Phe	Leu	Leu	Leu	Cys	Arg	Pro	Pro	Pro	
			85					90						95		
Gly	Val	Leu	Pro	Glu	Ile	Asp	Thr									
			100													

<210> 849



<211> 98  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

<400> 849

```

Glu Leu Glu Val  Glu Leu Leu Ile Thr Leu Ile Lys Ser Glu Lys Ala
 1              5              10              15
Ser Leu Gly Phe  Thr Val Thr Lys Gly Asn Gln Arg Ile Gly Cys Tyr
      20              25              30
Val His Asp Val  Ile Gln Asp Pro Ala Lys Ser Asp Gly Arg Leu Lys
      35              40              45
Pro Gly Asp Arg  Leu Ile Lys Val Asn Asp Thr Asp Val Thr Asn Met
      50              55              60
Thr His Thr Asp  Ala Val Asn Leu Leu Arg Ala Ala Ser Lys Thr Val
      65              70              75              80
Arg Leu Val Ile  Gly Arg Val Leu Glu Leu Pro Arg Ile Pro Met Leu
      85              90              95
Pro His

```

<210> 850  
 <211> 94  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

<400> 850

```

Met Leu Pro His  Leu Leu Pro Asp Ile Thr Leu Thr Cys Asn Lys Glu
 1              5              10              15
Glu Leu Gly Phe  Ser Leu Cys Gly Gly His Asp Ser Leu Tyr Gln Val
      20              25              30
Val Tyr Ile Ser  Asp Ile Asn Pro Arg Ser Val Ala Ala Ile Glu Gly
      35              40              45
Asn Leu Gln Leu  Leu Asp Val Ile His Tyr Val Asn Gly Val Ser Thr
      50              55              60
Gln Gly Met Thr  Leu Glu Glu Val Asn Arg Ala Leu Asp Met Ser Leu
      65              70              75              80
Pro Ser Leu Val  Leu Lys Ala Thr Arg Asn Asp Leu Pro Val
      85              90

```

<210> 851  
 <211> 93  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

<400> 851

```

Arg Pro Ser Pro  Pro Arg Val Arg Ser Val Glu Val Ala Arg Gly Arg
 1              5              10              15
Ala Gly Tyr Gly  Phe Thr Leu Ser Gly Gln Ala Pro Cys Val Leu Ser
      20              25              30
Cys Val Met Arg  Gly Ser Pro Ala Asp Phe Val Gly Leu Arg Ala Gly
      35              40              45
Asp Gln Ile Leu  Ala Val Asn Glu Ile Asn Val Lys Lys Ala Ser His

```

50		55		60	
Glu Asp Val Val Lys	Leu Ile Gly Lys Cys	Ser Gly Val Leu His Met			
65	70	75	80		
Val Ile Ala Glu Gly	Val Gly Arg Phe Glu Ser Cys Ser				
	85	90			

<210> 852  
 <211> 96  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

<400> 852	
Leu Cys Ser Glu Arg Arg Tyr Arg Gln Ile Thr Ile Pro Arg Gly Lys	
1	5 10 15
Asp Gly Phe Gly Phe Thr Ile Cys Cys Asp Ser Pro Val Arg Val Gln	
	20 25 30
Ala Val Asp Ser Gly Gly Pro Ala Glu Arg Ala Gly Leu Gln Gln Leu	
	35 40 45
Asp Thr Val Leu Gln Leu Asn Glu Arg Pro Val Glu His Trp Lys Cys	
	50 55 60
Val Glu Leu Ala His Glu Ile Arg Ser Cys Pro Ser Glu Ile Ile Leu	
65	70 75 80
Leu Val Trp Arg Met Val Pro Gln Val Lys Pro Gly Ile His Arg Asp	
	85 90 95

<210> 853  
 <211> 104  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

<400> 853	
Ile Ser Phe Ser Ala Asn Lys Arg Trp Thr Pro Pro Arg Ser Ile Arg	
1	5 10 15
Phe Thr Ala Glu Glu Gly Asp Leu Gly Phe Thr Leu Arg Gly Asn Ala	
	20 25 30
Pro Val Gln Val His Phe Leu Asp Pro Tyr Cys Ser Ala Ser Val Ala	
	35 40 45
Gly Ala Arg Glu Gly Asp Tyr Ile Val Ser Ile Gln Leu Val Asp Cys	
	50 55 60
Lys Trp Leu Thr Leu Ser Glu Val Met Lys Leu Leu Lys Ser Phe Gly	
65	70 75 80
Glu Asp Glu Ile Glu Met Lys Val Val Ser Leu Leu Asp Ser Thr Ser	
	85 90 95
Ser Met His Asn Lys Ser Ala Thr	
	100

<210> 854  
 <211> 109  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

<400> 854  
 Arg Gly Glu Lys Lys Asn Ser Ser Ser Gly Ile Ser Gly Ser Gln Arg  
 1 5 10 15  
 Arg Tyr Ile Gly Val Met Met Leu Thr Leu Ser Pro Ser Ile Leu Ala  
 20 25 30  
 Glu Leu Gln Leu Arg Glu Pro Ser Phe Pro Asp Val Gln His Gly Val  
 35 40 45  
 Leu Ile His Lys Val Ile Leu Gly Ser Pro Ala His Arg Ala Gly Leu  
 50 55 60  
 Arg Pro Gly Asp Val Ile Leu Ala Ile Gly Glu Gln Met Val Gln Asn  
 65 70 75 80  
 Ala Glu Asp Val Tyr Glu Ala Val Arg Thr Gln Ser Gln Leu Ala Val  
 85 90 95  
 Gln Ile Arg Arg Gly Arg Glu Thr Leu Thr Leu Tyr Val  
 100 105

<210> 855  
 <211> 111  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

<400> 855  
 Glu Glu Lys Thr Val Val Leu Gln Lys Lys Asp Asn Glu Gly Phe Gly  
 1 5 10 15  
 Phe Val Leu Arg Gly Ala Lys Ala Asp Thr Pro Ile Glu Glu Phe Thr  
 20 25 30  
 Pro Thr Pro Ala Phe Pro Ala Leu Gln Tyr Leu Glu Ser Val Asp Glu  
 35 40 45  
 Gly Gly Val Ala Trp Gln Ala Gly Leu Arg Thr Gly Asp Phe Leu Ile  
 50 55 60  
 Glu Val Asn Asn Glu Asn Val Val Lys Val Gly His Arg Gln Val Val  
 65 70 75 80  
 Asn Met Ile Arg Gln Gly Gly Asn His Leu Val Leu Lys Val Val Thr  
 85 90 95  
 Val Thr Arg Asn Leu Asp Pro Asp Asp Thr Ala Arg Lys Lys Ala  
 100 105 110

<210> 856  
 <211> 110  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

<400> 856  
 Ser Asp Tyr Val Ile Asp Asp Lys Val Ala Val Leu Gln Lys Arg Asp  
 1 5 10 15  
 His Glu Gly Phe Gly Phe Val Leu Arg Gly Ala Lys Ala Glu Thr Pro  
 20 25 30  
 Ile Glu Glu Phe Thr Pro Thr Pro Ala Phe Pro Ala Leu Gln Tyr Leu  
 35 40 45  
 Glu Ser Val Asp Val Glu Gly Val Ala Trp Arg Ala Gly Leu Arg Thr  
 50 55 60  
 Gly Asp Phe Leu Ile Glu Val Asn Gly Val Asn Val Val Lys Val Gly  
 65 70 75 80  
 His Lys Gln Val Val Ala Leu Ile Arg Gln Gly Gly Asn Arg Leu Val  
 85 90 95

Met Lys Val Val Ser Val Thr Arg Lys Pro Glu Glu Asp Gly  
100 105 110

<210> 857  
<211> 91  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic polymer

<400> 857  
Ile Tyr Leu Glu Ala Phe Leu Glu Gly Gly Ala Pro Trp Gly Phe Thr  
1 5 10 15  
Leu Lys Gly Gly Leu Glu His Gly Glu Pro Leu Ile Ile Ser Lys Val  
20 25 30  
Glu Glu Gly Gly Lys Ala Asp Thr Leu Ser Ser Lys Leu Gln Ala Gly  
35 40 45  
Asp Glu Val Val His Ile Asn Glu Val Thr Leu Ser Ser Ser Arg Lys  
50 55 60  
Glu Ala Val Ser Leu Val Lys Gly Ser Tyr Lys Thr Leu Arg Leu Val  
65 70 75 80  
Val Arg Arg Asp Val Cys Thr Asp Pro Gly His  
85 90

<210> 858  
<211> 83  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic polymer

<400> 858  
Ile Arg Leu Cys Arg Leu Val Arg Gly Glu Gln Gly Tyr Gly Phe His  
1 5 10 15  
Leu His Gly Glu Lys Gly Arg Arg Gly Gln Phe Ile Arg Arg Val Glu  
20 25 30  
Pro Gly Ser Pro Ala Glu Ala Ala Ala Leu Arg Ala Gly Asp Arg Leu  
35 40 45  
Val Glu Val Asn Gly Val Asn Val Glu Gly Glu Thr His His Gln Val  
50 55 60  
Val Gln Arg Ile Lys Ala Val Glu Gly Gln Thr Arg Leu Leu Val Val  
65 70 75 80  
Asp Gln Asn

<210> 859  
<211> 84  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic polymer

<400> 859  
Ile Arg His Leu Arg Lys Gly Pro Gln Gly Tyr Gly Phe Asn Leu His  
1 5 10 15  
Ser Asp Lys Ser Arg Pro Gly Gln Tyr Ile Arg Ser Val Asp Pro Gly  
20 25 30

Ser Pro Ala Ala Arg Ser Gly Leu Arg Ala Gln Asp Arg Leu Ile Glu  
35 40 45  
Val Asn Gly Gln Asn Val Glu Gly Leu Arg His Ala Glu Val Val Ala  
50 55 60  
Ser Ile Lys Ala Arg Glu Asp Glu Ala Arg Leu Leu Val Val Asp Pro  
65 70 75 80  
Glu Thr Asp Glu

<210> 860  
<211> 92  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic polymer

<400> 860  
Pro Gly Val Arg Glu Ile His Leu Cys Lys Asp Glu Arg Gly Lys Thr  
1 5 10 15  
Gly Leu Arg Leu Arg Lys Val Asp Gln Gly Leu Phe Val Gln Leu Val  
20 25 30  
Gln Ala Asn Thr Pro Ala Ser Leu Val Gly Leu Arg Phe Gly Asp Gln  
35 40 45  
Leu Leu Gln Ile Asp Gly Arg Asp Cys Ala Gly Trp Ser Ser His Lys  
50 55 60  
Ala His Gln Val Val Lys Lys Ala Ser Gly Asp Lys Ile Val Val Val  
65 70 75 80  
Val Arg Asp Arg Pro Phe Gln Arg Thr Val Thr Met  
85 90

<210> 861  
<211> 90  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic polymer

<400> 861  
Pro Phe Gln Arg Thr Val Thr Met His Lys Asp Ser Met Gly His Val  
1 5 10 15  
Gly Phe Val Ile Lys Lys Gly Lys Ile Val Ser Leu Val Lys Gly Ser  
20 25 30  
Ser Ala Ala Arg Asn Gly Leu Leu Thr Asn His Tyr Val Cys Glu Val  
35 40 45  
Asp Gly Gln Asn Val Ile Gly Leu Lys Asp Lys Lys Ile Met Glu Ile  
50 55 60  
Leu Ala Thr Ala Gly Asn Val Val Thr Leu Thr Ile Ile Pro Ser Val  
65 70 75 80  
Ile Tyr Glu His Ile Val Glu Phe Ile Val  
85 90

<210> 862  
<211> 109  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Synthetic polymer

<400> 862

Leu	Lys	Glu	Lys	Thr	Val	Leu	Leu	Gln	Lys	Lys	Asp	Ser	Glu	Gly	Phe
1				5					10					15	
Gly	Phe	Val	Leu	Arg	Gly	Ala	Lys	Ala	Gln	Thr	Pro	Ile	Glu	Glu	Phe
			20					25					30		
Thr	Pro	Thr	Pro	Ala	Phe	Pro	Ala	Leu	Gln	Tyr	Leu	Glu	Ser	Val	Asp
			35				40					45			
Glu	Gly	Gly	Val	Ala	Trp	Arg	Ala	Gly	Leu	Arg	Met	Gly	Asp	Phe	Leu
	50					55					60				
Ile	Glu	Val	Asn	Gly	Gln	Asn	Val	Val	Lys	Val	Gly	His	Arg	Gln	Val
65					70				75					80	
Val	Asn	Met	Ile	Arg	Gln	Gly	Gly	Asn	Thr	Leu	Met	Val	Lys	Val	Val
				85					90					95	
Met	Val	Thr	Arg	His	Pro	Asp	Met	Asp	Glu	Ala	Val	Gln			
			100					105							

<210> 863

<211> 88

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 863

Leu	Glu	Ile	Lys	Gln	Gly	Ile	Arg	Glu	Val	Ile	Leu	Cys	Lys	Asp	Gln
1				5					10					15	
Asp	Gly	Lys	Ile	Gly	Leu	Arg	Leu	Lys	Ser	Ile	Asp	Asn	Gly	Ile	Phe
			20					25					30		
Val	Gln	Leu	Val	Gln	Ala	Asn	Ser	Pro	Ala	Ser	Leu	Val	Gly	Leu	Arg
			35				40					45			
Phe	Gly	Asp	Gln	Val	Leu	Gln	Ile	Asn	Gly	Glu	Asn	Cys	Ala	Gly	Trp
	50					55					60				
Ser	Ser	Asp	Lys	Ala	His	Lys	Val	Leu	Lys	Gln	Ala	Phe	Gly	Glu	Lys
65					70				75					80	
Ile	Thr	Met	Arg	Ile	His	Arg	Asp								
				85											

<210> 864

<211> 75

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 864

Arg	Asp	Arg	Pro	Phe	Glu	Arg	Thr	Ile	Thr	Met	His	Lys	Asp	Ser	Thr
1				5					10					15	
Gly	His	Val	Gly	Phe	Ile	Phe	Lys	Asn	Gly	Lys	Ile	Thr	Ser	Ile	Val
			20					25					30		
Lys	Asp	Ser	Ser	Ala	Ala	Arg	Asn	Gly	Leu	Leu	Thr	Glu	His	Asn	Ile
			35				40					45			
Cys	Glu	Ile	Asn	Gly	Gln	Asn	Val	Ile	Gly	Leu	Lys	Asp	Ser	Gln	Ile
	50					55					60				
Ala	Asp	Ile	Leu	Ser	Thr	Ser	Gly	Asn	Ser	Ser					
65					70				75						

<210> 865

<211> 94  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

<400> 865  
 Gln Arg Arg Arg Val Thr Val Arg Lys Ala Asp Ala Gly Gly Leu Gly  
 1 5 10 15  
 Ile Ser Ile Lys Gly Gly Arg Glu Asn Lys Met Pro Ile Leu Ile Ser  
 20 25 30  
 Lys Ile Phe Lys Gly Leu Ala Ala Asp Gln Thr Glu Ala Leu Phe Val  
 35 40 45  
 Gly Asp Ala Ile Leu Ser Val Asn Gly Glu Asp Leu Ser Ser Ala Thr  
 50 55 60  
 His Asp Glu Ala Val Gln Val Leu Lys Lys Thr Gly Lys Glu Val Val  
 65 70 75 80  
 Leu Glu Val Lys Tyr Met Lys Asp Val Ser Pro Tyr Phe Lys  
 85 90

<210> 866  
 <211> 89  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

<400> 866  
 Ile Arg Val Val Lys Gln Glu Ala Gly Gly Leu Gly Ile Ser Ile Lys  
 1 5 10 15  
 Gly Gly Arg Glu Asn Arg Met Pro Ile Leu Ile Ser Lys Ile Phe Pro  
 20 25 30  
 Gly Leu Ala Ala Asp Gln Ser Arg Ala Leu Arg Leu Gly Asp Ala Ile  
 35 40 45  
 Leu Ser Val Asn Gly Thr Asp Leu Arg Gln Ala Thr His Asp Gln Ala  
 50 55 60  
 Val Gln Ala Leu Lys Arg Ala Gly Lys Glu Val Leu Leu Glu Val Lys  
 65 70 75 80  
 Phe Ile Arg Glu Phe Ile Val Thr Asp  
 85

<210> 867  
 <211> 101  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

<400> 867  
 Glu Pro Phe Tyr Ser Gly Glu Arg Thr Val Thr Ile Arg Arg Gln Thr  
 1 5 10 15  
 Val Gly Gly Phe Gly Leu Ser Ile Lys Gly Gly Ala Glu His Asn Ile  
 20 25 30  
 Pro Val Val Val Ser Lys Ile Ser Lys Glu Gln Arg Ala Glu Leu Ser  
 35 40 45  
 Gly Leu Leu Phe Ile Gly Asp Ala Ile Leu Gln Ile Asn Gly Ile Asn  
 50 55 60  
 Val Arg Lys Cys Arg His Glu Glu Val Val Gln Val Leu Arg Asn Ala

65		70		75		80									
Gly	Glu	Glu	Val	Thr	Leu	Thr	Val	Ser	Phe	Leu	Lys	Arg	Ala	Pro	Ala
				85					90					95	
Phe	Leu	Lys	Leu	Pro											
			100												

<210> 868  
 <211> 99  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

<400> 868

Ser	His	Gln	Gly	Arg	Asn	Arg	Arg	Thr	Val	Thr	Leu	Arg	Arg	Gln	Pro
1				5					10					15	
Val	Gly	Gly	Leu	Gly	Leu	Ser	Ile	Lys	Gly	Gly	Ser	Glu	His	Asn	Val
			20					25					30		
Pro	Val	Val	Ile	Ser	Lys	Ile	Phe	Glu	Asp	Gln	Ala	Ala	Asp	Gln	Thr
			35				40					45			
Gly	Met	Leu	Phe	Val	Gly	Asp	Ala	Val	Leu	Gln	Val	Asn	Gly	Ile	His
	50					55					60				
Val	Glu	Asn	Ala	Thr	His	Glu	Glu	Val	Val	His	Leu	Leu	Arg	Asn	Ala
65					70					75				80	
Gly	Asp	Glu	Val	Thr	Ile	Thr	Val	Glu	Tyr	Leu	Arg	Glu	Ala	Pro	Ala
				85				90						95	
Phe	Leu	Lys													

<210> 869  
 <211> 91  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

<400> 869

Arg	Gly	Glu	Thr	Lys	Glu	Val	Glu	Val	Thr	Lys	Thr	Glu	Asp	Ala	Leu
1				5					10					15	
Gly	Leu	Thr	Ile	Thr	Asp	Asn	Gly	Ala	Gly	Tyr	Ala	Phe	Ile	Lys	Arg
			20					25					30		
Ile	Lys	Glu	Gly	Ser	Ile	Ile	Asn	Arg	Ile	Glu	Ala	Val	Cys	Val	Gly
			35				40					45			
Asp	Ser	Ile	Glu	Ala	Ile	Asn	Asp	His	Ser	Ile	Val	Gly	Cys	Arg	His
	50					55					60				
Tyr	Glu	Val	Ala	Lys	Met	Leu	Arg	Glu	Leu	Pro	Lys	Ser	Gln	Pro	Phe
65					70					75				80	
Thr	Leu	Arg	Leu	Val	Gln	Pro	Lys	Arg	Ala	Phe					
				85				90							

<210> 870  
 <211> 88  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer



<400> 870  
 His Ser Ile His Ile Glu Lys Ser Asp Thr Ala Ala Asp Thr Tyr Gly  
 1 5 10 15  
 Phe Ser Leu Ser Ser Val Glu Glu Asp Gly Ile Arg Arg Leu Tyr Val  
 20 25 30  
 Asn Ser Val Lys Glu Thr Gly Leu Ala Ser Lys Lys Gly Leu Lys Ala  
 35 40 45  
 Gly Asp Glu Ile Leu Glu Ile Asn Asn Arg Ala Ala Asp Ala Leu Asn  
 50 55 60  
 Ser Ser Met Leu Lys Asp Phe Leu Ser Gln Pro Ser Leu Gly Leu Leu  
 65 70 75 80  
 Val Arg Thr Tyr Pro Glu Leu Glu  
 85

<210> 871  
 <211> 97  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

<400> 871  
 Pro Leu Asn Val Tyr Asp Val Gln Leu Thr Lys Thr Gly Ser Val Cys  
 1 5 10 15  
 Asp Phe Gly Phe Ala Val Thr Ala Gln Val Asp Glu Arg Gln His Leu  
 20 25 30  
 Ser Arg Ile Phe Ile Ser Asp Val Leu Pro Asp Gly Leu Ala Tyr Gly  
 35 40 45  
 Glu Gly Leu Arg Lys Gly Asn Glu Ile Met Thr Leu Asn Gly Glu Ala  
 50 55 60  
 Val Ser Asp Leu Asp Leu Lys Gln Met Glu Ala Leu Phe Ser Glu Lys  
 65 70 75 80  
 Ser Val Gly Leu Thr Leu Ile Ala Arg Pro Pro Asp Thr Lys Ala Thr  
 85 90 95  
 Leu

<210> 872  
 <211> 103  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

<400> 872  
 Gln Arg Val Glu Ile His Lys Leu Arg Gln Gly Glu Asn Leu Ile Leu  
 1 5 10 15  
 Gly Phe Ser Ile Gly Gly Gly Ile Asp Gln Asp Pro Ser Gln Asn Pro  
 20 25 30  
 Phe Ser Glu Asp Lys Thr Asp Lys Gly Ile Tyr Val Thr Arg Val Ser  
 35 40 45  
 Glu Gly Gly Pro Ala Glu Ile Ala Gly Leu Gln Ile Gly Asp Lys Ile  
 50 55 60  
 Met Gln Val Asn Gly Trp Asp Met Thr Met Val Thr His Asp Gln Ala  
 65 70 75 80  
 Arg Lys Arg Leu Thr Lys Arg Ser Glu Glu Val Val Arg Leu Leu Val  
 85 90 95  
 Thr Arg Gln Ser Leu Gln Lys  
 100

<210> 873  
 <211> 86  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

<400> 873  
 Arg Lys Glu Val Glu Val Phe Lys Ser Glu Asp Ala Leu Gly Leu Thr  
 1 5 10 15  
 Ile Thr Asp Asn Gly Ala Gly Tyr Ala Phe Ile Lys Arg Ile Lys Glu  
 20 25 30  
 Gly Ser Val Ile Asp His Ile His Leu Ile Ser Val Gly Asp Met Ile  
 35 40 45  
 Glu Ala Ile Asn Gly Gln Ser Leu Leu Gly Cys Arg His Tyr Glu Val  
 50 55 60  
 Ala Arg Leu Leu Lys Glu Leu Pro Arg Gly Arg Thr Phe Thr Leu Lys  
 65 70 75 80  
 Leu Thr Glu Pro Arg Lys  
 85

<210> 874  
 <211> 91  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

<400> 874  
 His Ser His Pro Arg Val Val Glu Leu Pro Lys Thr Asp Glu Gly Leu  
 1 5 10 15  
 Gly Phe Asn Val Met Gly Gly Lys Glu Gln Asn Ser Pro Ile Tyr Ile  
 20 25 30  
 Ser Arg Ile Ile Pro Gly Gly Val Ala Glu Arg His Gly Gly Leu Lys  
 35 40 45  
 Arg Gly Asp Gln Leu Leu Ser Val Asn Gly Val Ser Val Glu Gly Glu  
 50 55 60  
 His His Glu Lys Ala Val Glu Leu Leu Lys Ala Ala Lys Asp Ser Val  
 65 70 75 80  
 Lys Leu Val Val Arg Tyr Thr Pro Lys Val Leu  
 85 90

<210> 875  
 <211> 96  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

<400> 875  
 Ile Ser Asn Gln Lys Arg Gly Val Lys Val Leu Lys Gln Glu Leu Gly  
 1 5 10 15  
 Gly Leu Gly Ile Ser Ile Lys Gly Gly Lys Glu Asn Lys Met Pro Ile  
 20 25 30  
 Leu Ile Ser Lys Ile Phe Lys Gly Leu Ala Ala Asp Gln Thr Gln Ala  
 35 40 45

Leu	Tyr	Val	Gly	Asp	Ala	Ile	Leu	Ser	Val	Asn	Gly	Ala	Asp	Leu	Arg
50						55					60				
Asp	Ala	Thr	His	Asp	Glu	Ala	Val	Gln	Ala	Leu	Lys	Arg	Ala	Gly	Lys
65					70					75				80	
Glu	Val	Leu	Leu	Glu	Val	Lys	Tyr	Met	Arg	Glu	Ala	Thr	Pro	Tyr	Val
				85					90					95	

<210> 876  
 <211> 110  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

Ile	His	Phe	Ser	Asn	Ser	Glu	Asn	Cys	Lys	Glu	Leu	Gln	Leu	Glu	Lys
1				5					10					15	
His	Lys	Gly	Glu	Ile	Leu	Gly	Val	Val	Val	Val	Glu	Ser	Gly	Trp	Gly
			20					25					30		
Ser	Ile	Leu	Pro	Thr	Val	Ile	Leu	Ala	Asn	Met	Met	Asn	Gly	Gly	Pro
			35				40					45			
Ala	Ala	Arg	Ser	Gly	Lys	Leu	Ser	Ile	Gly	Asp	Gln	Ile	Met	Ser	Ile
	50					55				60					
Asn	Gly	Thr	Ser	Leu	Val	Gly	Leu	Pro	Leu	Ala	Thr	Cys	Gln	Gly	Ile
65					70					75				80	
Ile	Lys	Gly	Leu	Lys	Asn	Gln	Thr	Gln	Val	Lys	Leu	Asn	Ile	Val	Ser
				85					90					95	
Cys	Pro	Pro	Val	Thr	Thr	Val	Leu	Ile	Lys	Arg	Asn	Ser	Ser		
			100					105					110		

<210> 877  
 <211> 94  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

Ile	Pro	Pro	Val	Thr	Thr	Val	Leu	Ile	Lys	Arg	Pro	Asp	Leu	Lys	Tyr
1				5					10					15	
Gln	Leu	Gly	Phe	Ser	Val	Gln	Asn	Gly	Ile	Ile	Cys	Ser	Leu	Met	Arg
			20					25					30		
Gly	Gly	Ile	Ala	Glu	Arg	Gly	Gly	Val	Arg	Val	Gly	His	Arg	Ile	Ile
			35				40					45			
Glu	Ile	Asn	Gly	Gln	Ser	Val	Val	Ala	Thr	Ala	His	Glu	Lys	Ile	Val
	50					55				60					
Gln	Ala	Leu	Ser	Asn	Ser	Val	Gly	Glu	Ile	His	Met	Lys	Thr	Met	Pro
65					70					75				80	
Ala	Ala	Met	Phe	Arg	Leu	Leu	Thr	Gly	Gln	Glu	Asn	Ser	Ser		
				85					90						

<210> 878  
 <211> 101  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

<400> 878

Ile	Trp	Glu	Gln	His	Thr	Val	Thr	Leu	His	Arg	Ala	Pro	Gly	Phe	Gly
1				5					10					15	
Phe	Gly	Ile	Ala	Ile	Ser	Gly	Gly	Arg	Asp	Asn	Pro	His	Phe	Gln	Ser
			20					25					30		
Gly	Glu	Thr	Ser	Ile	Val	Ile	Ser	Asp	Val	Leu	Lys	Gly	Gly	Pro	Ala
		35					40					45			
Glu	Gly	Gln	Leu	Gln	Glu	Asn	Asp	Arg	Val	Ala	Met	Val	Asn	Gly	Val
	50					55					60				
Ser	Met	Asp	Asn	Val	Glu	His	Ala	Phe	Ala	Val	Gln	Gln	Leu	Arg	Lys
65					70					75					80
Ser	Gly	Lys	Asn	Ala	Lys	Ile	Thr	Ile	Arg	Arg	Lys	Lys	Lys	Val	Gln
			85						90					95	
Ile	Pro	Asn	Ser	Ser											
															100

<210> 879

<211> 95

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 879

Ile	Ser	Ser	Gln	Pro	Ala	Lys	Pro	Thr	Lys	Val	Thr	Leu	Val	Lys	Ser
1				5					10					15	
Arg	Lys	Asn	Glu	Tyr	Gly	Leu	Arg	Leu	Ala	Ser	His	Ile	Phe	Val	
			20				25					30			
Lys	Glu	Ile	Ser	Gln	Asp	Ser	Leu	Ala	Ala	Arg	Asp	Gly	Asn	Ile	Gln
		35					40				45				
Glu	Gly	Asp	Val	Val	Leu	Lys	Ile	Asn	Gly	Thr	Val	Thr	Glu	Asn	Met
	50					55					60				
Ser	Leu	Thr	Asp	Ala	Lys	Thr	Leu	Ile	Glu	Arg	Ser	Lys	Gly	Lys	Leu
65					70				75						80
Lys	Met	Val	Val	Gln	Arg	Asp	Arg	Ala	Thr	Leu	Leu	Asn	Ser	Ser	
				85					90					95	

<210> 880

<211> 90

<212> PRT

<213> Artificial Sequence

<220>

<223> Synthetic polymer

<400> 880

Ile	Arg	Met	Lys	Leu	Val	Lys	Phe	Arg	Lys	Gly	Asp	Ser	Val	Gly	Leu
1				5					10					15	
Arg	Leu	Ala	Gly	Gly	Asn	Asp	Val	Gly	Ile	Phe	Val	Ala	Gly	Val	Leu
			20					25					30		
Glu	Asp	Ser	Pro	Ala	Ala	Lys	Glu	Gly	Leu	Glu	Glu	Gly	Asp	Gln	Ile
		35					40					45			
Leu	Arg	Val	Asn	Asn	Val	Asp	Phe	Thr	Asn	Ile	Ile	Arg	Glu	Glu	Ala
	50					55					60				
Val	Leu	Phe	Leu	Leu	Asp	Leu	Pro	Lys	Gly	Glu	Glu	Val	Thr	Ile	Leu
65					70				75						80
Ala	Gln	Lys	Lys	Lys	Asp	Val	Phe	Ser	Asn						
				85					90						

<210> 881  
 <211> 96  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

<400> 881  
 Leu Ile Trp Glu Gln Tyr Thr Val Thr Leu Gln Lys Asp Ser Lys Arg  
 1 5 10 15  
 Gly Phe Gly Ile Ala Val Ser Gly Gly Arg Asp Asn Pro His Phe Glu  
 20 25 30  
 Asn Gly Glu Thr Ser Ile Val Ile Ser Asp Val Leu Pro Gly Gly Pro  
 35 40 45  
 Ala Asp Gly Leu Leu Gln Glu Asn Asp Arg Val Val Met Val Asn Gly  
 50 55 60  
 Thr Pro Met Glu Asp Val Leu His Ser Phe Ala Val Gln Gln Leu Arg  
 65 70 75 80  
 Lys Ser Gly Lys Val Ala Ala Ile Val Val Lys Arg Pro Arg Lys Val  
 85 90 95

<210> 882  
 <211> 79  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

<400> 882  
 Arg Val Leu Leu Met Lys Ser Arg Ala Asn Glu Glu Tyr Gly Leu Arg  
 1 5 10 15  
 Leu Gly Ser Gln Ile Phe Val Lys Glu Met Thr Arg Thr Gly Leu Ala  
 20 25 30  
 Thr Lys Asp Gly Asn Leu His Glu Gly Asp Ile Ile Leu Lys Ile Asn  
 35 40 45  
 Gly Thr Val Thr Glu Asn Met Ser Leu Thr Asp Ala Arg Lys Leu Ile  
 50 55 60  
 Glu Lys Ser Arg Gly Lys Leu Gln Leu Val Val Leu Arg Asp Ser  
 65 70 75

<210> 883  
 <211> 90  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

<400> 883  
 His Ala Pro Asn Thr Lys Met Val Arg Phe Lys Lys Gly Asp Ser Val  
 1 5 10 15  
 Gly Leu Arg Leu Ala Gly Gly Asn Asp Val Gly Ile Phe Val Ala Gly  
 20 25 30  
 Ile Gln Glu Gly Thr Ser Ala Glu Gln Glu Gly Leu Gln Glu Gly Asp  
 35 40 45  
 Gln Ile Leu Lys Val Asn Thr Gln Asp Phe Arg Gly Leu Val Arg Glu  
 50 55 60  
 Asp Ala Val Leu Tyr Leu Leu Glu Ile Pro Lys Gly Glu Met Val Thr

65		70		75		80			
Ile	Leu	Ala	Gln	Ser	Arg	Ala	Asp	Val	Tyr
				85					90

<210> 884  
 <211> 106  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

<400> 884  
 Ile Pro Gly Asn Ser Thr Ile Trp Glu Gln His Thr Ala Thr Leu Ser  
 1 5 10 15  
 Lys Asp Pro Arg Arg Gly Phe Gly Ile Ala Ile Ser Gly Gly Arg Asp  
 20 25 30  
 Arg Pro Gly Gly Ser Met Val Val Ser Asp Val Val Pro Gly Gly Pro  
 35 40 45  
 Ala Glu Gly Arg Leu Gln Thr Gly Asp His Ile Val Met Val Asn Gly  
 50 55 60  
 Val Ser Met Glu Asn Ala Thr Ser Ala Phe Ala Ile Gln Ile Leu Lys  
 65 70 75 80  
 Thr Cys Thr Lys Met Ala Asn Ile Thr Val Lys Arg Pro Arg Arg Ile  
 85 90 95  
 His Leu Pro Ala Glu Phe Ile Val Thr Asp  
 100 105

<210> 885  
 <211> 98  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

<400> 885  
 Gln Asp Val Gln Met Lys Pro Val Lys Ser Val Leu Val Lys Arg Arg  
 1 5 10 15  
 Asp Ser Glu Glu Phe Gly Val Lys Leu Gly Ser Gln Ile Phe Ile Lys  
 20 25 30  
 His Ile Thr Asp Ser Gly Leu Ala Arg His Arg Gly Leu Gln Glu  
 35 40 45  
 Gly Asp Leu Ile Leu Gln Ile Asn Gly Val Ser Ser Gln Asn Leu Ser  
 50 55 60  
 Leu Asn Asp Thr Arg Arg Leu Ile Glu Lys Ser Glu Gly Lys Leu Ser  
 65 70 75 80  
 Leu Leu Val Leu Arg Asp Arg Gly Gln Phe Leu Val Asn Ile Pro Asn  
 85 90 95  
 Ser Ser

<210> 886  
 <211> 104  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Synthetic polymer

<400> 886

Arg	Gly	Tyr	Ser	Pro	Asp	Thr	Arg	Val	Val	Arg	Phe	Leu	Lys	Gly	Lys
1				5					10					15	
Ser	Ile	Gly	Leu	Arg	Leu	Ala	Gly	Gly	Asn	Asp	Val	Gly	Ile	Phe	Val
			20					25					30		
Ser	Gly	Val	Gln	Ala	Gly	Ser	Pro	Ala	Asp	Gly	Gln	Gly	Ile	Gln	Glu
		35					40					45			
Gly	Asp	Gln	Ile	Leu	Gln	Val	Asn	Asp	Val	Pro	Phe	Gln	Asn	Leu	Thr
	50					55					60				
Arg	Glu	Glu	Ala	Val	Gln	Phe	Leu	Leu	Gly	Leu	Pro	Pro	Gly	Glu	Glu
65					70					75				80	
Met	Glu	Leu	Val	Thr	Gln	Arg	Lys	Gln	Asp	Ile	Phe	Trp	Lys	Met	Val
			85						90					95	
Gln	Ser	Glu	Phe	Ile	Val	Thr	Asp								
			100												